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CAMPUS RECRUITMENT

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Inside the Book

Introduction to Campus Recruitment Procedure

Every student chooses an educational institute on the basis of three important factors-

A. What would be the quality of education imparted?

B. How would the education benefit the student academically or otherwise?

C. The potential jobs that would be offered on the campus to the students who pass out of the institute.

The last factor is apparently the most important criteria that would be evaluated by the students in choosing a particular academic institution.

The campus recruitment procedure has become one of the most popular avenues to recruit people into companies.

Companies hire engineering graduates into roles that range from software application development, delivery roles, software/ hardware testing, research and development, application maintenance network security and support etc. Management graduates are hired for roles in business development, IT consulting, business analysis, customer relationship management, HR roles, sales, marketing, finance etc.

Before a student braces himself to face the arduous task of appearing for the campus selection procedure, there are a few points that he has to bear in mind –

1. Interact with senior students who have been hired into different organizations. Taking a cue from the seniors would effectively help a student to know the areas that would require extensive preparation and the ones that wouldn't.

2. Interact with the faculty and understand how the technical interviews could be facilitated.

3. Map your strengths to the profile of the job. This is extremely important because there may be scenarios in which a student may have more than one offer at hand. Understanding the profile of the job and the opportunities for growth within the organization, besides the CTC offered would benefit the students to narrow down their choices.

4. Study and understand the philosophy, culture and values of the companies that recruit college graduates.

Campus Recruitment Procedure:

Most colleges that offer campus recruitment facilitate the recruitment through a special department known as the placement department. The placement department is steered by a placement officer who oversees the entire recruitment process.

The various stages that are involved in a typical campus recruitment program are as follows-

➢ Pre-placement talk

➢ Aptitude tests

➢ Group discussion

➢ Technical Interview

➢ HR Interview.

1. Pre Placement Talk:

The pre-placement talk is a presentation that is given by the recruiting company's HR and recruiting team. Various aspects of the company such as its profile, history, milestone achievements, organizational goals, its vision, mission, the job profile, products, services, product lines, customers, locations, branches, organizational chart, senior management etc. The role of the job offered as well as its description along with the selection criteria, CTC, designation etc. are also explained in detail. Generally the pre-placement talk is presented by a senior member of the delivery or the HR team.

The general format of the selection process remains the same across companies that hire campus graduates. Minor variation may be present. Selection happens in the following stages.

2. Aptitude Test:

Aptitude test is conducted to evaluate how effectively a student could respond to a task or a situation and their communication skills. In short, this area tests a candidate's problem solving ability. The areas that are normally tested are numerical or quantitative ability, logical reasoning, verbal ability and data sufficiency.

a. Quantitative Aptitude:

Numerical ability entails multiple choice questions that are from the topics mostly covered in high school along with some advanced topics. The various topics from which questions may be asked are Number theory, Averages, Ratio and proportion, Time and Distance, Percentages, mixtures and allegation, permutations, combinations, probability etc.

The purpose of this test is to assess the problem solving ability of a candidate under constraints in time. This area can be effectively countered if a student prepares sufficiently beforehand.

b. Verbal Ability:

This area tests the communication skills, reading ability and also the grammatical knowledge of a candidate. The type of questions that may be asked in verbal ability include grammar based questions (sentence correction/ error identification), vocabulary based questions (para jumbles, synonyms, antonyms, fill in the blanks, cloze passages), idioms and phrases, reading comprehension and occasionally descriptive writing (essays, formal/informal letters, analytical/ issue writing section). It is mandatory for a candidate to have basic rules of English in place before he or she appears for the campus placement process.

c. Analytical and Logical Reasoning:

This section tests the logical reasoning and the analytical ability of a candidate. The questions are generally given in the form of puzzles and a set of questions follow the puzzle. It is required by a candidate to rationally approach the puzzle by interpreting the logic. Verbal based reasoning questions such as cause and effect, assertion and reasons may also be asked.

d. Data Interpretation and Data Sufficiency:

Data is presented in various forms such as bar graphs, pie charts and data should be interpreted accordingly. In data sufficiency, a problem is presented with some data and a candidate has to determine if the given amount of data is sufficient for problem solving.

The aptitude round cannot be underestimated because it is a process of eliminating candidates who do not have enough problem solving abilities, reasoning skills or acceptable levels of communication. While a few companies may lay more emphasis on communication and numerical abilities, a few others may stress upon analytical abilities. Regardless of how well a candidate fares academically, he or she should prepare sufficiently for the aptitude test as this stage in an inevitable phase of any campus selection process.

3. Group Discussion:

Those selected in the aptitude test will be called for group discussion. Group discussion is a process of selection rather than a process of elimination. The recruiting team will evaluate certain personality traits like confidence, communicating with the team, participation, ability to present one's views in a clear and concise manner, interpersonal skills, leadership skills etc. These are the traits that the employers would want to see in their potential employees. The main intention of group discussion is to assess the behavior of a candidate in a group. In the GD round, there are usually a minimum of 5 and a maximum of 10 candidates. The topic of the discussion is normally related current topics, hypothetical situations, problematic situations, abstract topics etc. Students who are confident, have a clear thought process and are able to articulate their thoughts lead the group discussion. Hence, students need to be positive, confident and dynamic in their attitude in this round. They should also develop effective listening skills that would enable them to listen and understand others perspective. Students are advised to keep abreast of current affairs and are expected to familiarize themselves with the popular topics in news. They are advised to form small groups and discuss various topics which would bolster their efforts to successively participate in the group discussions.

4. Technical Interview:

The pre final round of the selection process is the technical interview. A student appearing for the technical round should be thorough with the fundamental aspects of his subject. While a student may not be expected to know the entire subject inside out, he or she is expected to be proficient in the basic aspects of the subject and able to present the subject in a well formatted manner to his interviewers. It would greatly benefit the students if they would have completed their projects on their own rather than plagiarizing (copying) from other sources. This would exhibit the ingenuity of a student and increase his chances of clearing the technical round. Students who have interned in good organizations have an edge above the others in the technical round as company internships are greatly valued by the recruiters.

5. HR Interview:

The HR interview is more of a two way process. A student is assessed for his communication, attitude, confidence, flexibility, enthusiasm, behavioral skills etc. The company HR will market their company through the HR round. A student should be confident, but not over confident in the HR round. He or she should be honest and polite in answering the questions and also ask questions to the company HR regarding basic policies, procedures and of course, the CTC. Many a time it is quite common for technically strong candidates to fail to get through the HR round. This may happen if the candidate has poor presentation skills, is overconfident or is rude or extremely timid in his or her attitude. Self-grooming is very important for a candidate to clear this round of the campus selection.

The recruitment process weighs heavily on the attitude of a candidate. A candidate should exhibit positive thinking, learnability, proper body language, confidence, clarity of thought, interpersonal skills, future goals etc. This segment has about 75% weightage.

Academic knowledge has a weightage of about 10%. This test the student's fundamental knowledge of the core subjects in his or her branch and also its practical use.

Communication skills carry a weightage of about 10%.

Preparing a good resume is equally important while bracing for the campus selection process. The resume is the first impression a recruiter has of the candidate. The resume should be prepared in such a way that it reflects a candidate's capabilities, his strengths, achievements and areas of interests. Hence sufficient efforts should go into preparing a good resume. For further reading, refer to 'Resume' section of this book.

Knowledge about current affairs and extra-curricular activities carry about 5% weightage. These areas should also be concentrated upon to increase the chances of making it through the campus interviews.

Thus, a thorough and systematic preparation in each of the areas mentioned above would go a long way in ensuring that a candidate gets through the right company.

Written/Aptitude Test

Practice Paper-1

Quantitative Aptitude

1) A train running at a speed of 90 *km/hr* crosses a platform double of its length in 36 *sec*. What is the length of platform in meters?
a) 450   b) 200   c) 300
d) Can't be determined   e) none of these

2) 'A' can finish a work in 32 days and 'B' can do the same work in half the time taken by 'A'. Then working together what part of the same work they can finish in a day?
a) $\frac{3}{32}$ b) $\frac{1}{8}$ c) $\frac{5}{32}$ d) $\frac{16}{32}$ e) $\frac{1}{32}$

3) The owner of an electronic shop charges his customer 24% more than the cost price. If a customer paid Rs 10080 for a TV set, then what was the cost price of the TV set?
a) Rs 8119   b) Rs 8129   c) Rs 8250
d) Rs 8139   e) None of these

4) What would be the simple interest obtained on an amount of Rs 12690 at the rate of 6% per annum for 3 years?
a) Rs 2423.40   b) Rs 2233.40   c) Rs 2284.20
d) Rs 2525   e) None of these

5) Find the compound interest on Rs 8000 at 5% per annum for 3 years compounded annually?
a) *Rs* 1261   b) Rs 6261   c) Rs 9261
d) Rs 8261   e) None of these

6) 6 same type of machines can produce a total of 270 bottles per minute. How many bottles are produced by the 10 machines in four minutes of time?
a) 648   b)1800   c) 2700   d)10800   e) None

7) Find the least perfect square number which is divisible by 8, 15 and 24.
a)3600   b) 360   c) 6400   d) 64   e) None

8) A person had a rectangular shaped garden with sides of 16 *feet* and 9 *feet*. The garden was changed into a square with the same area as the original rectangular- shaped garden. How many feet in length is each of the sides of the new square shaped garden?
a) 7   b) 9   c) 12   d) 55   e) 16

9) At what time between 2 O'clock and 3 O'clock the two hand coincide?
a) $10\frac{10}{11}$ minutes past 2 O'clock
b) $11\frac{10}{11}$ minutes past 2 O'clock
c) $12\frac{10}{11}$ minutes past 2 O'clock
d) $13\frac{10}{11}$ minutes past 2 O'clock
e) None of these

10) The average of five consecutive numbers *A*, *B*, *C*, *D* and *E* is 48. What is the product of *A* and *E*?
a) 2162   b) 2208   c) 2024   d) 2300   e) None

11) Find the mean proportion of 45 and 405.
a) 9   b) 15   c) 90   d) 135   e) None

12) *A, B* and *C* enter into a partnership. '*A*' contributes Rs. 2400 for 6 months. '*B*' contributes Rs.7200 for 2 months and '*C*' contributes Rs.3500 for 7 months. If the total profit be Rs.1250, what is A's share in the profit?
a)121   b) 112   c) 111   d) 122   e) None

13) Find the cost of running a fence round a square field 49284 m^2 in the area of Rs.3 per meter.
a)2614   b) 2714   c) 2914   d) 2664   e) None

Directions (14 to 17): Following table gives the production of computers of six companies A, B, C, D, E and F over the years.

Production of Computers (in 000's)						
Years→ Company↓	2005	2006	2007	2008	2009	2010
A	125	114	85	95	138	146
B	102	90	72	88	115	145
C	80	116	110	80	84	75
D	68	156	142	60	95	84
E	100	120	126	115	95	80
F	140	110	126	124	90	88

14) What is the ratio of the total production of companies *B, C* and *E* together in 2006 to the total production of companies *A, C* and *D* together in 2008?   (*Asked in Infosys*)
a) 10 : 11   b) 11 : 10   c) 27 : 31
d) 55 : 56   e) None

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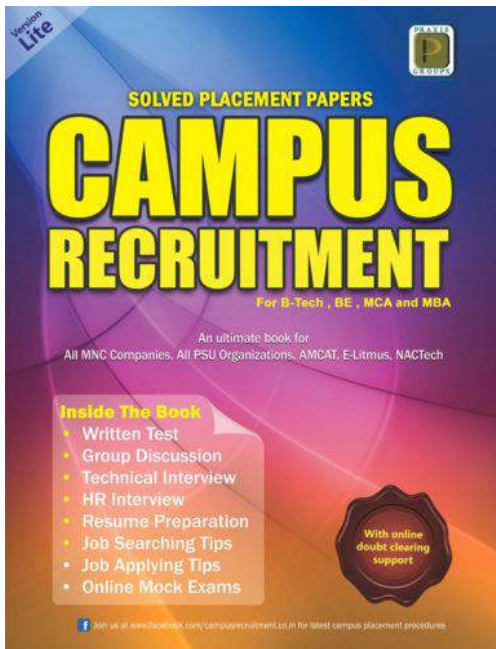
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72)a; Excepting in the first sentence, in the rest of the sentences, the verb 'declare' has taken 'as' which cannot be used. Eg. UNO declared Dec' 10 a human rights day; but not 'as' a human rights day.

Ask doubt using Question Id: 5958

73)b; The adverb 'elder' takes 'to' but not 'than'; 'older' is used for the members of the family only.

Ask doubt using Question Id: 5959

74)a; The appropriate tense is 'past tense' – as it had happened in the past.

Ask doubt using Question Id: 5960

75)c; The adverb as well as adjective forms of 'fast' is–'fast' only. There is no adverb such as 'fastly'.

Ask doubt using Question Id: 5961

76)a; The tense in the question is 'present perfect. Hence the reply should also be in the same tense.

Ask doubt using Question Id: 5962

77)b; The phrase 'it's time' or 'it's high time' followed by 'that' takes a past tense and it means – it's already late; beyond time.

Ask doubt using Question Id: 5963

78)b; When the sentence is in 'positive', the tag must be 'negative' and when the sentence is 'negative', the tag must be 'positive'. Of course some exceptions are there.

Ask doubt using Question Id: 5964

79)b; The phrasal verb 'getting along with' means-finding friendship.

Ask doubt using Question Id: 5965

80)a; The phrasal verb – 'get around' means 'avoiding taxes'.

Ask doubt using Question Id: 5966

81)a; The idiom 'set the Thames on fire' means- to do something extraordinarily.

Ask doubt using Question Id: 5967

82)a; The idiom 'role in money' means spending abundantly.

Ask doubt using Question Id: 5968

83)d; The phrasal verb 'put off' means postponement.

Ask doubt using Question Id: 5969

84)c; The preposition 'on' is used for campus; 'in' is wrong.

Ask doubt using Question Id: 5970
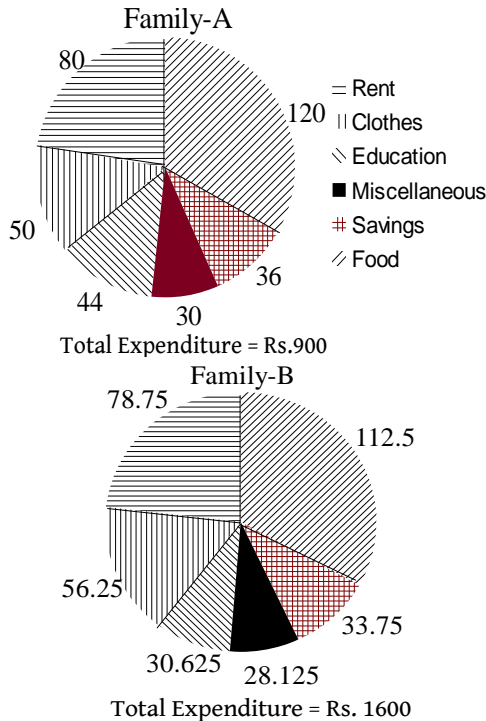
85)a; Ask doubt using Question Id: 5971

86)a; Ask doubt using Question Id: 5972

Practice Paper-2

Quantitative Aptitude

Refer the figure given below to answer the following questions:

Expenditure of two families in rupees.

Family-A

Rent
Clothes
Education
Miscellaneous
Savings
Food

80
120
50
44
30
36

Total Expenditure = Rs.900

Family-B

78.75
112.5
56.25
33.75
30.625
28.125

Total Expenditure = Rs. 1600

1) How much expenditure on food of the family-*A* is more than the expenditure on rent?
a) Rs.100   b) Rs.140   c) Rs.120   d) Rs.90   e) None

2) From family-A to B, the increase in expenditure on clothes was about what percent of the total increase of expenditure?

a) $15\frac{2}{7}\%$ b) $14\frac{2}{3}\%$ c) $17\frac{6}{7}\%$ d) $18\frac{1}{6}\%$

e) None

3) On which commodity the expenditure of family *B* is same as the expenditure on clothes of the family *A*?
a) Savings   b) Clothes   c) Miscellaneous
d) Education   e) Rent

4) What is the saving of the family B?
a)Rs. 120 b)Rs. 125 c)Rs 250 d)Rs. 150 e)Rs. 115

5) There are 25 mathematics books and 24 physics books in a library shelf. In how many ways we can choose one mathematics and one physics book?

a) 25×24   b) 25+24   c) $\frac{25}{24}$ d) $\frac{25\,!}{24\,!}$ e) None

6) How many permutations are there of the letters of the word *"ENGLISH"*?   *(Asked in TCS)*

a) 7   b) 7!   c) $\frac{7\,!}{7}$ d) $\frac{7}{7\,!}$ e) None

7) Suppose there are 4 red balls and 7 green balls – all identical in size, except for the color, as stated in the bag. You are asked to close your eyes and from the bag if you pick one ball, what is the probability that the ball is red?

a) $\frac{4}{11}$ b) $\frac{7}{11}$ c) $\frac{11\,!}{4\,!}$ d) $\frac{11\,!}{4}$ e) None

Directions (8 to 9): **Read the following question and the conclusions that follow and answer as**

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics are needed.*

8) What is the value of *x*, if *x* and *y* are two distinct integers and their product is 30?
Statement-1: *x* is an odd integer.
Statement-2: *x > y*.

9) If *a, b* are negative integers. Is $\frac{a}{b}$ an integer?

Statement-1: *a* = 5 ;   **Statement-2:** *b* = *a*

10) The first negative term in the series,
45, 41, 37, ... is   *(Asked in Hexaware)*
a) 12   b) 13   c) -3   d) -1   e) None

11) The average marks of 20 girls in a class is 80 and 30 boys is 70. Calculate the average marks of class room?
a) 25   b) 75   c) 76   d) 74   e) 150

12) The average age of a man & his son is 48 years. The ratio of their ages is 11 : 15. What will be the ratio of their ages after 6 years?
a) 6 : 5   b) 5 : 3   c) 4 : 3   d) 2 : 1   e) None

13) A clock is started at noon. By 10 minutes past 5 O'clock, the hour hand has turned through
a) 145⁰   b) 150⁰   c) 155⁰   d) 160⁰   e) 140⁰

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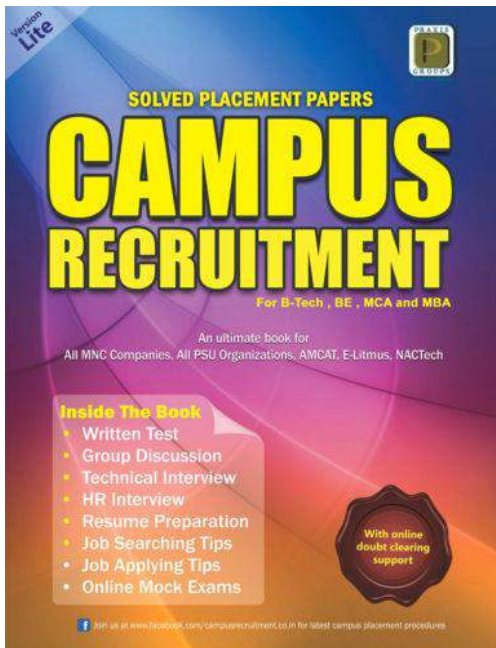
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71)c; This sentence is an example of parallelism - The verb is in present perfect form. The helping verb 'has' is related to the rest of the verbs also; hence it should be – has (purchased), (has) bought, (has) chosen.

Ask doubt using Question Id: 6052

72)a; Who is crossing the road? Hence it should be- 'while **he** was crossing the road'

Ask doubt using Question Id: 6053

73)b; It is not 'hung'; it should be 'hanged'; - hang, hanged, hanged. Kill (someone) by tying a rope attached from above around their neck. (A form of capital punishment): he was hanged for murder. Whereas 'hung' is the past and past participle form of the verb – hung, meaning attach or be attached to a hook on a wall. (e.g.: we could just hang the pictures on the walls.)

Ask doubt using Question Id: 6054

74)a; The verb 'awaiting' does not take the preposition 'for'; but the verb 'wait' takes the preposition 'for'.

Ask doubt using Question Id: 6055

75)a; The verb 'depend' takes either 'on' or 'upon' according to the situation.

Ask doubt using Question Id: 6056

76)d; The verb 'were' is used in the constructions such as – if I **were** you;

Ask doubt using Question Id: 6057

77)c; Oscillation must be between two opposing things; hence 'unhappiness'.

Ask doubt using Question Id: 6058

78)a; Since happiness has become just an imagination, 'absence' is appropriate.

Ask doubt using Question Id: 6059

79)c; We are just living in the 'presence' of the 'idea' of happiness.

Ask doubt using Question Id: 6060

80)b; 'An' is the appropriate article.

Ask doubt using Question Id: 6061

81)d; The last sentence of the passage gives clue for this.

Ask doubt using Question Id: 6062

82)b; The author of this passage is not against the religion; he just says that people are just accumulating undesirable things; based on the passage, we cannot say whether he is a pessimist or an optimist. The last sentence of the passage clearly indicates that mind has got the sharpness and potential to take a person to the highest levels.

Ask doubt using Question Id: 6063

83)c; The word accumulative is used as an adjective with the noun 'part'.

Ask doubt using Question Id: 6064

84)b; Since the body and mind are not under your control, they are not yours and they are outside of you only; because, anybody can influence your body and mind without your consent.
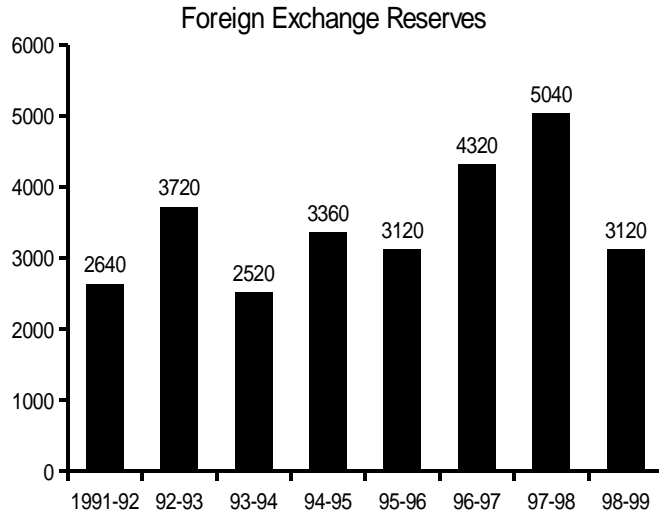
Ask doubt using Question Id: 6065

85)a; The author is of the clear opinion that even thoughts related to religion also can be a trash.

Ask doubt using Question Id: 6066

Practice Paper-3

Quantitative Aptitude

The bar graph given below shows the foreign exchange reserves of a country (in million US $) from 1991–92 to 1998-99.

Foreign Exchange Reserves

1) The foreign exchange reserves in 1997-98 were how many times that in 1994-95?
a) 1.5   b) 2   c) 3.5   d) 2.6   e) 4.2

2) What was the percentage increase in foreign exchange reserves in 1997-98 over 1993-94?
a) 80%   b) 90% c) 100%   d) 110% e) 125%

3) The foreign exchange reserves in 1996–97 were approximately what percent of the average foreign exchange reserves over the period under review?
a) 80%   b) 100%   c) 125%   d) 130% e) 150%

4) The ratio of the number of years, in which the foreign exchange reserves are above the average reserves, to those of the reserves which are below the average is?
a) 3 : 5   b) 2 : 3   c) 4 : 7   d) 3 : 7   e) None

5) There are five different tea cups and three different tea saucers in a Tea Party. How many ways are there to buy a cup and a saucer?
a) 5!   b) 3!   c) (5+3)!   d) $\dfrac{5!}{3!}$ e) 5×3

6) Calculate the number of different words that can be obtained by rearranging the letters of the word *TRUST*.
a) 5!   b) 4!   c) $\dfrac{5!}{2!}$ d) $^5C_2$ e) $^5P_2$

7) Two cards are drawn at random from an ordinary pack of 52 cards. Find the probability that both are Spades.
a) $\dfrac{13}{52}$ b) $\dfrac{^{13}C_2}{^{15}C_2}$ c) $\dfrac{(13!)}{(52!)}$ d) $\dfrac{13^2}{52^2}$ e) $\dfrac{13\times2}{15\times2}$

8) The value of $(256)^{\frac{5}{4}}$ is
a) 984   b) 512   c) 1014   d) 1024   e) 524

9) The average weight of three boys P, T and R is $54\dfrac{1}{3}$ *kg*. While the average weight of three boys T, F and G is 53 *kg*. Then what is the average weight of P, T, R, F and G?
a) 53.8 *kg*   b) 52.4 *kg*   c) 53.2 *kg*
d) Can't be determined   e) None

10) In 20 minutes, what is the difference between the angles made by long hand and the short hand of a standard clock.   *(Asked in Infotech)*
a) 120⁰   b) 90⁰   c) 110⁰   d) 130⁰   e)100⁰

11) $\dfrac{2}{3}:\dfrac{5}{6}::\dfrac{8}{7}:x$; Find the value of *x*?
a) $\dfrac{17}{4}$ b) $\dfrac{10}{7}$ c) $\dfrac{5}{3}$ d) $\dfrac{13}{14}$ e) $\dfrac{15}{14}$

12) *'A'* grazes 20 sheep for 6 weeks. 'B' grazes 30 sheep for 8 weeks in a field. How should they divide a rent for Rs.60?
a) 1:2   b) 3:4   c) 2:1   d) Rs 40:20   e) Rs 20:40

13) Find the area of a rhombus, one side of which measure 20 *cm* and one diagonal 24 cm.
a) 384 *sq cm*   b) 364 *sq cm*   c) 374 *sq cm*
d) 382 *sq cm*   e) 378 *sq cm*

Directions (14 to 15): Read the following question and the conclusions that follow and answer as
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b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*
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e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

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78)d; This is a common error with many- '**in** the campus' is wrong; '**on** the campus' is appropriate.

Ask doubt using Question Id: 6144

79)c; The first sentence of the para jumble begins with a statement 'engineers have....'; the pronoun 'they' in option B refers to the noun 'Engineers' of the opening sentence. In continuation with the sentence A, D tries to glorify engineers saying that all those skills and technical training of the engineers are for serving the society. C further says that serving the society means – creating wealth, health and the welfare in the society. The concluding sentence 6 says that the above mentioned should happen without causing any harm to the society.

Ask doubt using Question Id: 6145

80)d; In the para jumble questions, there will be an opening sentence as well as a concluding sentence. Among the four sentences, it is very clear that the opening sentence would be D and the continuation is B which starts with the hint 'it', referring to courage in D. Needless to say, the beginning word of the C, the conjunction 'and' is a continuation of the previous sentence. The opening word 'ultimately' is a concluding word. Hence the correct option is DBCA.

Ask doubt using Question Id: 6146

81)b; There can be confusion between the first and the last sentence as both of them can be the opening sentences at the first glance. But, if the paragraph is started with A, sentence B cannot be a continuation as given in the answer choice 1. A can take E as given in the answer choice 4, but D doesn't fit in the sequence. If the para is started with E, as in the answer choice 3, the sentence D can be a continuation, but not A. hence the appropriate choice is 2.
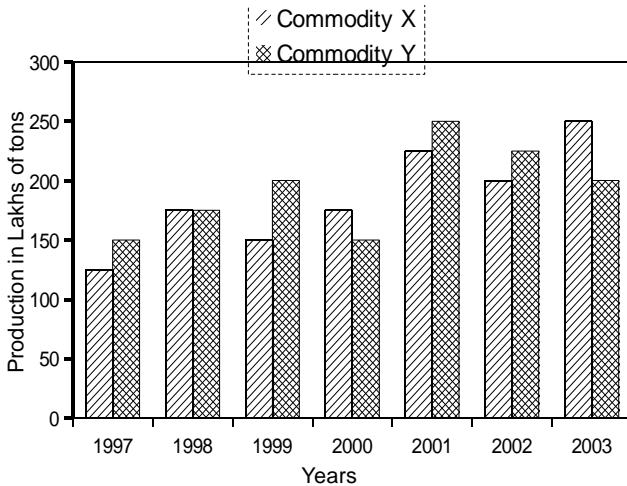
Ask doubt using Question Id: 6147

82 to 85 – Groups of animals are called with different collective nouns- We call **a shoal** of fish; a **hive** of bees; a **pride** of lions and a **muster** of peacocks.

Ask doubt using Question Id: 6148

Practice Paper-4

Quantitative Aptitude

Study the graph below carefully to answer the following questions.

1) For which of the following pairs of years the total production of the two commodities together is equal.

a) 1997 & 2000   b) 2002 & 2003   c) 2001 & 2003
d) 1998 & 1999   e) None of these

2) What is the ratio between the total production of commodities *X* and *Y* for all the seven years together?

a) 26:27   b) 13:14   c) 27:26   d) 14:13   e) None

3) During which year the percentage increase/decrease in production of commodity *X* from the previous year was maximum?

a)1998   b)2000   c)2003   d)2002   e) None

4) Approximately, what was the average production (in lakh tones) of commodity *Y*?

a) 225   b) 216   c) 195   d) 181   e) 111

5) We call a natural number 'odd–looking' if all of its digits are odd. How many four digit odd–looking number are there?

a) 4500   b) $4\left(^{10}C_5\right)$ c) $4\left(^{10}P_5\right)$ d) $\dfrac{5!}{5^4}$ e) 5^4

6) A necklace is a circular string with several beads on it. It is allowed to rotate a necklace but not to turn it over. How many different necklace can be made using 13 different beads?

(Asked in SAIL)

a)13!   b)12!   c) $\dfrac{13!}{2}$ d) 13^2 e) 13

7) In a box of 15 bulbs 4 are defective. If 2 bulbs are chosen at random what is the probability that both the bulbs are not defective? *(Asked in TCS)*

a) 0.56   b) 0.25   c) 0.50   d) 0.5625   e) 0.0625

8) If log(2) = 0.30103, the number of digits in 5^{20} is,

a) 14   b) 16   c) 18   d) 20   e) 25

9) Out of three given numbers, the first number is twice the second and thrice the third. If the average of three numbers is 154, what is the difference between the first and third number?

a) 126   b) 42   c) 166   d) 52   e) None

10) What is the angle between the two hands of a clock at 25 minutes past 3 O'clock?

a) 60^0 b) 47.5^0 c) 45^0 d) 50^0 e) 52.5^0

11) *A:B* = 2:3, *B:C* = 4:5 , *C:D* = 6:7. Find the ratio of *A* and *D*.

a) 4:13   b) 7:24   c) 16:35   d) 8:22   e) 10:15

12) *A*, *B* and *C* rent a piece of ground for Rs.90.50. '*A*' puts in 4 sheeps for 2 months. *B* puts 12 sheeps for 4 months and *C* puts 6 sheeps for 3 months. What share of rent must each pay?

a) ₹11.25, ₹20, ₹29.25   b) ₹20.35, ₹21.50, ₹10.75
c) ₹17.25, ₹21.50, ₹24   d) ₹10, ₹60, ₹12.50
e) ₹17.25, ₹21.50, ₹24

13) The cost of preparing the walls of a room of 12 *m* long at the rate of 45 *paise per square meter* is Rs.113.40 and the cost of the floor at the rate of 35 *paise per square meter* is Rs.37.80. Find the height of the room.   *(Asked in TATA Steel)*

a) 6*m* b) $6\dfrac{1}{2}m$ c)7*m*   d) $7\dfrac{1}{2}m$ e) $5\dfrac{1}{2}m$

Directions(Q.No:14to15):Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

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71)b; Since the education terrain is 'differing', it is uneven.

72)c; Air is 'expelled' under pressure.

73)a; Trawling means hunting, searching, sifting.

74)b; The conjunction 'while' indicates contradiction in a sentence. The second part indicates that violence is committed by some leaders; that means, in the first part of the sentence, the opposite should happen- exonerate which means freeing somebody from blame or guilt.

75)a; When will a player react to other players? When someone is casual, careless, and lazy.

76 to 85: This cloze passage is about the socio-economic problems of diabetes – the expression 'loss of productivity' indicates it must be **economic (76)** burden only. The reasons for the diabetes are sedentary jobs, changing diet and the **spread (77)** of electronic entertainment. Broadcast is used for news; widespread and prevalent do not take 'of'; the appropriate adjective for the noun 'dependence' is **increasing (78)** only. The verb driven takes the preposition '**out' (79)**. This 'diabetes' has become a big **challenge (80)**. The solution is to become physically **active (81)**. For a large **section (82)** of population, physical activity is a **matter (83)** of choice and is a **personal (84)** preference. A policy requires to **attract (85)** people towards exercise.

Practice Paper-5

Quantitative Aptitude

Directions(Q.No:1-4): Study the following graph carefully to answer the questions that follow

Monthly income (Rupees in thousands)

Arjun Suman Jyothi
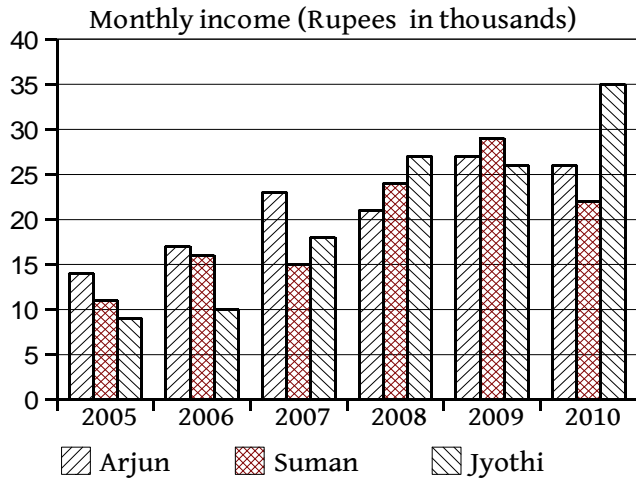
Monthly income (Rupees in thousands) of three different persons in six different years.

1) What was the difference between the total monthly salary of Arun in all the years together and Suman's monthly income in the year 2007?
a) *Rs 1.24 lakh* b) *Rs 1.14 lakh* c) *Rs 11.4 lakh*
d) *Rs 12.4 lakh* e) None

2) What is the ratio of Arun's monthly income in the year 2006, Suman's monthly income in the year 2007 and Jyothi's monthly income in the year 2005?
a) 6:3:5 b) 6:4:5 c) 5:6:4 d) 5:4:7 e) None

3) In which year was the difference between Jyothi's and Arun's monthly income the second highest?
a) 2005 b) 2006 c) 2007 d) 2009 e) 2010

4) The monthly income of Suman in the year 2009 was approximately what percentage of the monthly income of Jyothi in the year 2010?
a) 72 b) 89 c) 83 d) 67 e) 95

5) How many ways are there to lay four balls, colored red, black, blue and green in a row?
a) 4 b) 4! c) 4^4 d) $\dfrac{4!}{4^4}$ e) 4(4!)

6) There are 20 states in a certain country and every pair of them is connected by a road way. How many road ways are there? (*Asked in ABB*)
a)20! b)19! c)18! d) $\dfrac{20.19}{2}$ e) $^{20}C_2$

7) Two cards are selected at random from 10 cards numbered 1 to 10. Find the probability that the sum is odd if two cards are drawn together.
a) $\dfrac{4}{9}$ b) $\dfrac{5}{9}$ c) $\dfrac{5}{10}$ d) $\dfrac{5!}{10!}$ e) $\dfrac{2}{10}$

8) Which of the statements is true for 31^{11} & 17^{14}?
a) 31^{11} is greater b) 31^{11} is lesser
c) $31^{11} \leqslant 17^{14}$ d) $31^{11} \geqslant 17^{14}$ e) None

9) The average of five numbers is 281. The average of the first two numbers is 280 and the average of last two numbers is 178.5. What is the third number?
a) 488 b) 336 c) 228 d) 464 e) None

10) At 30 minutes past 4 O'clock, what is the angle between the two hands?
a) 45^0 b) 48^0 c) 50^0 d) 40^0 e) 55^0

11) Two equal glasses are respectively $\dfrac{1}{3}$ & $\dfrac{1}{4}$ full of milk. They are then filled up with water and the contents are mixed in a tumbler. Find the ratio of milk and water in the tumbler. (*Asked in Syntel*)
a) 1:5 b) 7:17 c) 3:9 d) 2:5 e) 4:7

12) *A, B & C* invested Rs.500, Rs.630 & Rs.700. If *A* gets Rs. 75 as profit then how much *C* will get?
a) $57\dfrac{3}{4}\%$ b) Rs.105 c) Rs.90 d) Rs.126 e) Rs.117

13) How long will a man take to go, walking at 4 *km* per hour, twice round a circular garden of 70 *m* radius?
a) 13 *m* 2 *sec* b) 12 *m* 13 *sec* c) 13 *m* 11 *sec*
d) 12 *m* 11 *sec* e) 11 *m* 13 *sec*

Directions(14 to 15): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

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67)c; Speaking in a self-aggrandizing manner, i.e., beating one's own drum is boasting oneself; walking in a showy and arrogant manner is swagger.

Ask doubt using Question Id: 6303

68)d; Nowhere in the passage it is mentioned that they are of lackadaisical (means – arrogant, apathetic, careless etc.,) or selfish; nor they have any authority, whatsoever. If they really have bureaucratic authority, they would not be middle class people.

Ask doubt using Question Id: 6304

69)a; To hail means to praise and acclaim and this is contrary to what has been proposed in the passage.

Ask doubt using Question Id: 6305

70)a; The very opening sentence of the passage speaks about the 'semantic conspiracy' which means linguistic intrigue; a trickery usage of language.

Ask doubt using Question Id: 6306

71)a; The paragraph can start only with the sentence E. The opening words of the sentence of 'B' – 'these two parties' is a continuation of the last words of the sentence E- 'two parties'. There are only two options with EB; in the option 4, D follows B; but whom the opening pronoun 'he' of D does refer to? F is the further explanation of B. Hence EBFCAD.

Ask doubt using Question Id: 6307

72)a; Excepting B, the rest of the sentences can be the beginners of a paragraph. Excepting in the first answer choice-**a**, sentence B breaks the sequence of the rest of the choices.

Ask doubt using Question Id: 6308

73)b; It is only in the second option we find the sentence A in continuation with the opening sentence D. Sentence A alone explains, why the fear has such enormous effect on the human beings.

Ask doubt using Question Id: 6309

74)c; In the first, second and fourth answer choices, sentence D breaks the sequence as there is no reference to the opening words of the sentence D 'this image' in the preceding sentence; only in choice-**c**, D is preceded by B.

Ask doubt using Question Id: 6310

75)b; Sentence B can only be a concluding sentence; we find in the answer choice-**b**, a sequence of the sentences logically leading to the concluding sentence B.

Ask doubt using Question Id: 6311

76)b; To 'yield' is to surrender, submit, and obey someone unconditionally. 'Resist' which means defy, oppose and refusing to accept is the opposite word.

Ask doubt using Question Id: 6312

77)c; Excepting 'seldom' which means – rarely, infrequently and not often, is the antonym.

Ask doubt using Question Id: 6313

78)c; Paucity means scarcity, rarity, shortage and dearth. Abundance, meaning wealth, large quantity- is the opposite word of paucity.

Ask doubt using Question Id: 6314

79)b; Conclusive means – convincing, irrefutable, indisputable and unquestioning.

Ask doubt using Question Id: 6315

80)a; When something is 'manifested', it is very clear, visible, evident and noticeable. The opposite word would be 'conceal'.

Ask doubt using Question Id: 6316

81)c; Impudent, disrespectable, brazen, insolent and 'rude' are a few synonyms of the underlined word 'impertinent'.

Ask doubt using Question Id: 6317

82)c; Deprecating somebody is denouncing, condemning, denigrating and "protesting".

Ask doubt using Question Id: 6318

83)c; Commodious means 'spacious', large, voluminous and extensive.

Ask doubt using Question Id: 6319

84)d; if someone is 'confounded' means – he is puzzled, confused, bewildered stunned and 'baffled'.

Ask doubt using Question Id: 6320

**85)a;** To be undaunted is to be impervious, undisturbed and 'fearless'.

Ask doubt using Question Id: 6321

Practice Paper-6

Quantitative Aptitude

The following bar diagram represents the income and expenditure of a middle class family for four consecutive years in thousands of rupees. Analyze the chart carefully & answer the following questions:

Income and Expenditure of middle class family
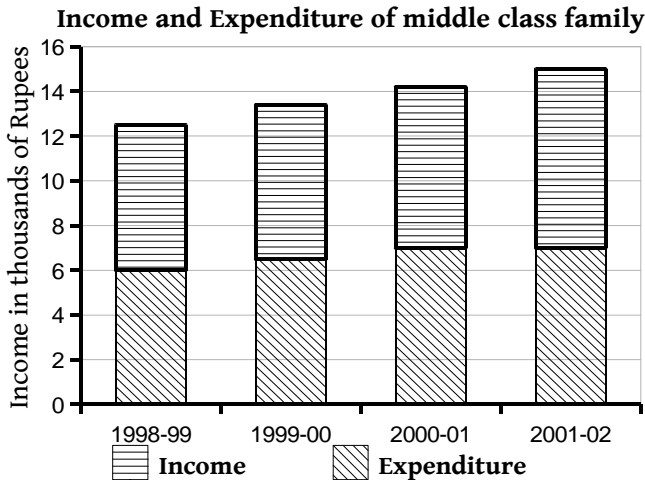
1) The ratio of the expenditure of the year 1998-99 and income of the year 2001-02 is

a) 4 : 3　　b) 12 : 1　　c) 1 : 12　　d) 3 : 4　　e) None

2) In 2001-02, what is the percentage of expenditure over income?

a) 87.50　b) 12.76　c) 93.75　d) 88.12　e) 89.46

3) What is the average annual income?

a) Rs. 6125　　b) Rs. 7150　　c) Rs. 7375

d) Rs. 6375　　e) Rs. 6524

4) What is the sum of differences between income and expenditures of all the four years.

a) 2000　　　b) 2500　　　c) 2100

d) 2300　　　e) 2600

5) With 6 pen's consisting of 3 black, 2 green and 1 red, the number of arrangements is

a) 6!　　b) $\dfrac{6!}{3!}$　　c) $\dfrac{6!}{2!}$　　d) $\dfrac{6!}{3!\,2!\,1!}$　　e) $\dfrac{6!}{5!}$

6) Given that $P(A) = 0.7$; $P(B) = 0.4$; $P(A \cup B) = 0.8$. Find $P(B/A)$.

a) $\dfrac{1}{7}$　　b) $\dfrac{2}{7}$　　c) $\dfrac{3}{7}$　　d) $\dfrac{4}{7}$　　e) $\dfrac{5}{7}$

7) Let A and B be two events such that $P(A) = \dfrac{1}{4}$; $P(B) = \dfrac{1}{3}$ and $P(A \cup B) = \dfrac{5}{12}$.

What is the value of $P(A/B)\,P(B) + P(A/B^{1})\,P(B^{1})$?

a) $\dfrac{1}{4}$　b) $\dfrac{1}{3}$　c) $\dfrac{1}{12}$　d) $\dfrac{5}{12}$　e) $\dfrac{1}{3}$

Directions: (8 to 9): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

8) What is value of $4x^2 - 3x + 1$?

Statement-1: $(x-1)(x+2) = 0$;　**Statement-2:** $x = 1$

9) If 't' is a operator. Is the value of 'btc' greater than 10?.

Statement-1: $x\,t\,y = x^2 + y^2$ for all x, y;

Statement-2: $b = 2$; $c = 1$.

10) A tourist bus covers a distance of 522km at the speed of 58 km/hr in 11 $hours$. If the bus halted at a tourist spot in the middle of the journey, for how much time did it halt? 　　　*(Asked in Videocon)*

a) 30 min　　　b) 1 $hour$　　　c) 1 hr 30 min

d) 2 $hours$　　　e) None of these

11) In 6 years Rs.9000 amounts to Rs.40500. In what time at the same rate will Rs.625 amounts to Rs. 1800?

a) 5.62 $years$　　b) 2.08 $years$　　c) 3.22 $years$

d) 6.62 $years$　　e) None of these

12) If a certain sum of money invested at a certain rate of compound interest doubles in 6 years. In how many years will it become 8 times?

a) 12　　b) 15　　c) 16　　d) 21　　e) 48

13) A train leaves Delhi at 3:00 am, averaging 30 mph. Another train headed in the same direction leaves Agra at 6:00 am, averaging 60 mph, how many hours after the second train leaves will it overtake the first train?　　*(Asked in Gammon India)*

a) $2\dfrac{1}{2}\,hours$　　b) 3　　c) $3\dfrac{1}{2}\,hours$　　d) 4　　e) 2
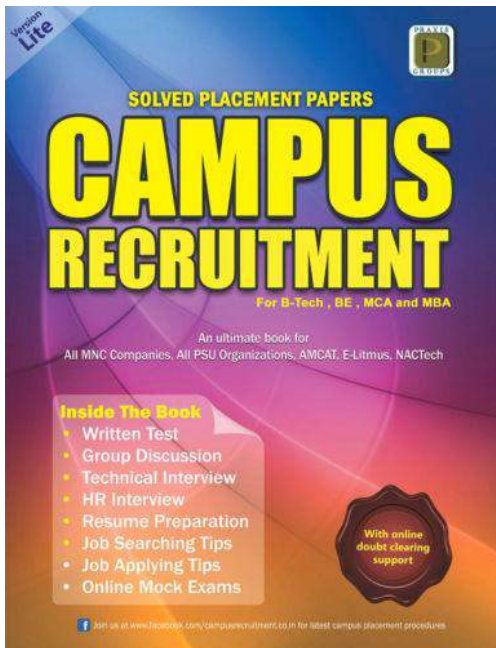
75)a; Excepting C, other sentences cannot be the beginning of the passage. The words 'the same' in the sentence A refers to what is proposed in C. Hence the sequence must be CA.

Ask doubt using Question Id: 6396

76)a; Since the anger of a person and the emotion of a rapist are more or less the same in terms of negative force, there is not much of a difference between a person of wrath and a rapist.

Ask doubt using Question Id: 6397

77)a; The very opening sentence speaks about the intensity of the negativities of man and woman.

Ask doubt using Question Id: 6398

78)b; Author clearly mentions that the source of the actions of a rapist and a man of uncontrollable anger is one and the same.

Ask doubt using Question Id: 6399

79)c; Soma or 'Somna' means night and ambul means to walk – somnambulist means one who walks in the night in an unconscious state.

Ask doubt using Question Id: 6400

80)c; The study of the origin of the history of the words is called – Etymology.

Ask doubt using Question Id: 6401

81)b; A large, tall cupboard in which clothes may be hung or stored is called a –wardrobe.

Ask doubt using Question Id: 6402

82)a; Hyperbole is an exaggerated statement or claim not meant to be taken literally-

Ask doubt using Question Id: 6403

83)a; Kleptomaniac is one who has irresistible tendency to steal; a recurrent urge to steal, typically without regard for need or profit.

Ask doubt using Question Id: 6404

84)b; A person who speaks several languages; a person who studies linguistics is called a Linguist.

Ask doubt using Question Id: 6405

85)a; 'mis' is a negative prefix. Gamist is formed out of the latin root 'gamos' which means marriage. Hence, a misogamist is one who hates marriage. Misogynist (mis+gene+ist) is one who hates woman. (gene is supposed to be the root of anything. So also a woman; hence, from gene 'gynecology'. Anthrop is mankind and one who hates mankind is a misanthrope.

Ask doubt using Question Id: 6406

Practice Paper-7

Quantitative Aptitude

The following graph shows the production of Rice in million tons during the various years. Study the graph carefully and answer the following questions correctly.

Production of Rice in million tons
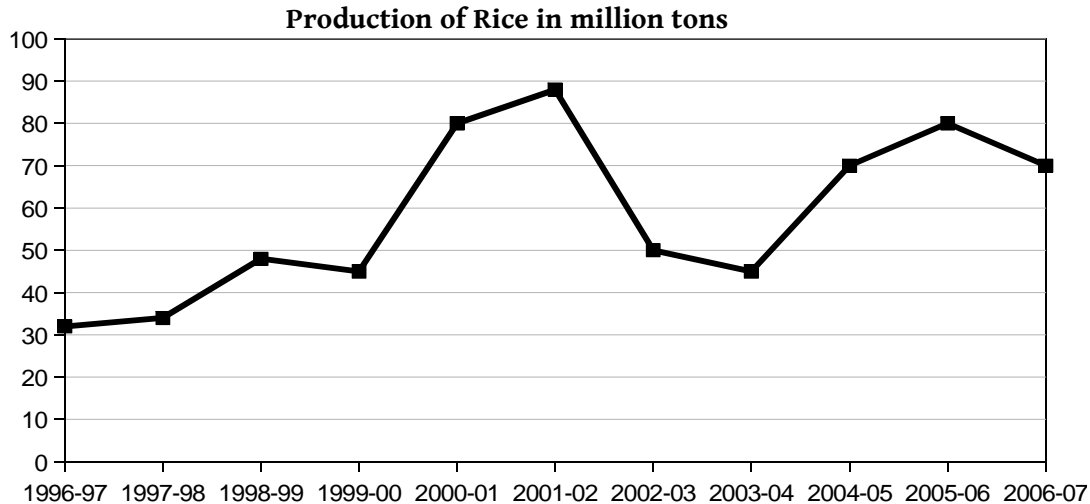
1) The production fell down to the maximum extent in which of the following year.

a) 99 - 00   b) 02 – 03   c) 03 – 04

d) 06 – 07   e) 98 – 99

2) The increase in production was maximum during which of the year over its previous year.

a) 00 - 01   b) 04 – 05   c) 01 – 02

d) 05 – 06   e) 02 – 03

3) The average production during the 1st three three year was.

a) 44 *MT*   b) 46 *MT*   c) 48 *MT*   d) 50 *MT*   e) 52 *MT*

4) The maximum production of wheat was noted in the year.

a) 00–01   b) 01–02   c) 05–06   d) 04–05   e) 02–03

5) How many permutations are there of the letters of the word *"ENGLISH"*.

a) 7!   b) 6!   c) 7   d) 7^7 e) 6^7

6) A deck of cards is dealt out. What is the probability that the tenth card dealt is a king.

a) $8 \times {}^9C_4$ b) ${}^9C_4$ c) $\dfrac{{}^4C_1}{{}^{52}C_1}$ d) $9\dfrac{1}{13}$ e) None

7) From a pack of 52 cards, two cards are drawn at random. The probability that one is an ace and the other is a king is.   *(Asked in Airtel)*

a) $\dfrac{2}{13}$ b) $\dfrac{1}{169}$ c) $\dfrac{16}{169}$ d) $\dfrac{8}{663}$ e) $\dfrac{6}{13}$

Directions: (8 to 9): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

8) For non-negative integers x, y & z, Is x^z odd?

Statement-1: The product $x . z$ is odd.

Statement-2: $x = 2^y$.

9) Is $\dfrac{11x}{23} < \dfrac{7x}{13}$?
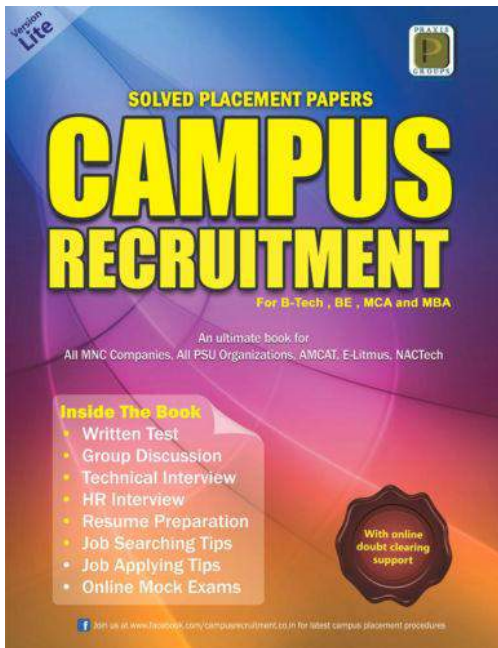
Statement-1: x is an integer.

Statement-2: $x > 0$;

10) What is the respective ratio between the speed of a train and speed of a car, if the car covered 364 *km* in 7 *hours* and the the train covered 195 *km* in 3 *hours*?

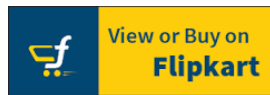a) 5 : 4   b) 4 : 5   c) 13 : 5   d) 5 : 13   e) None

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72)c; Uptrend is an improvement or increase esp. in the business and wealth. This word can fit in as the passage is speaking about the positive side of the business-
Ask doubt using Question Id: 6478

73)c; As the passage is speaking about the increase of the product and subsequently the rise of the prices, in due course, the prices have **stabilised** at a 'higher level'.
Ask doubt using Question Id: 6479

74)a; As the passage mentions 'September', the blank takes the option 'monthly'
Ask doubt using Question Id: 6480

75)c; As the prices have shown a down trend for some time, after some period of time, **again** the prices have hardened or rose.
Ask doubt using Question Id: 6481

76)b; The appropriate phrasal verb is 'married to' but not 'married with'.
Ask doubt using Question Id: 6482

77)c; The expression is – It is a rainy/hot day. Though 'it' is a pronoun and refers a noun only, but in such expressions, 'it' is considered the subject of the sentence.
Ask doubt using Question Id: 6483

78)d; The verb 'flee' means - to run away, as from danger; move or pass swiftly; fly; speed. The verb forms for fly is – flew and flown which means flying in the air.
Ask doubt using Question Id: 6484

79)c; When there are only two persons or things, the usage is– 'former' and 'latter' – If more than three are there, 'last' will come.
Ask doubt using Question Id: 6485

80)b; when two nouns are combined with the conjunctions – either or......neither nor, the verb agrees with the latter (the second) noun.
Hence –I am.
Ask doubt using Question Id: 6486

81)a; The adjective – 'prettier' itself is a comparative degree and there is no need of another comparative word- 'more' as it becomes a redundant expression. We can't say – more clever; we should say 'cleverer'.
Ask doubt using Question Id: 6487

82)b; there can't be two first chapters; there will be 'first two' chapters.
Ask doubt using Question Id: 6488

83)c; To resemble somebody is to be similar to someone. The verb 'resemble' doesn't take the preposition 'after'.
Ask doubt using Question Id: 6489

84)a; When two actions happen in the past one after another, the first action should be expressed in the 'past perfect tense' and the second action in simple past.
Ask doubt using Question Id: 6490

85)b; The coordinating conjunction is – 'hardly.......when', but not 'hardly......then', like the coordinating conjunction- no sooner ....than.
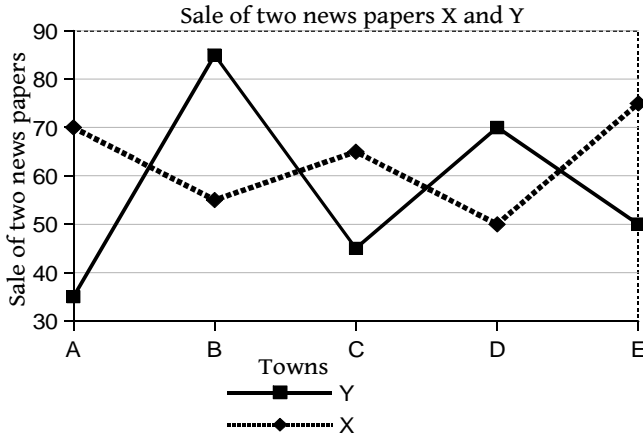**Ask doubt using Question Id: 6491**

Practice Paper-8

Quantitative Aptitude

Study the following graph carefully and answer the questions accordingly.

Following graph shows the sales of two news papers 'X' and 'Y' in five towns A, B, C, D and E of a state. The numbers are in thousands.

Sale of two news papers X and Y

1) The sale of news paper X in town B is approximately what percent of the sale of X in all the towns together?

a) 17   b) 25   c) 35   d) 29   e) 75

2) What is the average sale of news paper Y in all the towns together?

a) 57000 b) 40000 c) 53000 d) 57000 e) None

3) What is the respective ratio of the sale of the news paper X in town C and the sale of news paper Y in town E?

a) 10:13   b) 11:15   c) 12:13   d) 13:10   e) None

4) The sale of news paper Y in town B is how much percent more than the sale of news paper X in town D?

a) 50%   b) 60%   c) 70%   d) 80%   e) None

5) Ten points are marked on a plane so that no three of them are on the same straight line. How many triangles are there with vertices at these points?   (*Asked in GAIL*)

a) $^{10}P_3$ b) $^{10}C_3$ c) $3\times{}^{10}C_3$ d) $^{10}C_7$ e) None

6) A number is selected randomly from each of the two sets-{0,1,2,3,4,5,6,7,8,9} and {0,1,2,3,4,5,6,7,8,9}. What is the probability that the sum of the numbers is equal to 9?

a) $\frac{1}{5}$ b) $\frac{4}{5}$ c) $\frac{1}{10}$ d) $\frac{9}{10}$ e) None

7) Given that $P(A) = \frac{1}{3}$, $P(B) = \frac{1}{4}$, $P(A/B) = \frac{1}{6}$. The probability $P(B/A) =$?

a) $\frac{2}{10}$ b) $\frac{15}{24}$ c) $\frac{15}{16}$ d) $\frac{5}{16}$ e) $\frac{11}{16}$

Directions(8 to 9): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

8) For isosceles triangle LMN, what is the measure of angle N?

Statement-1: The lengths of all three sides of triangle LMN are the same.

Statement-2: $\angle$L measure 60^0.

9) If x, y, z and w are consecutive integers such that the product x.y.z.w = 120. Then w =?

Statement-1: w is prime;

Statement-2: x > y > z > w.   (*Asked in HP*)

10) A man walks at a speed of 4 *km/hr* and runs at the speed of 8 *km/hr*. How much time will the man require to cover a distance of 24 *km*, if he completes half of his journey (12 *km*) walking and half of his journey running?

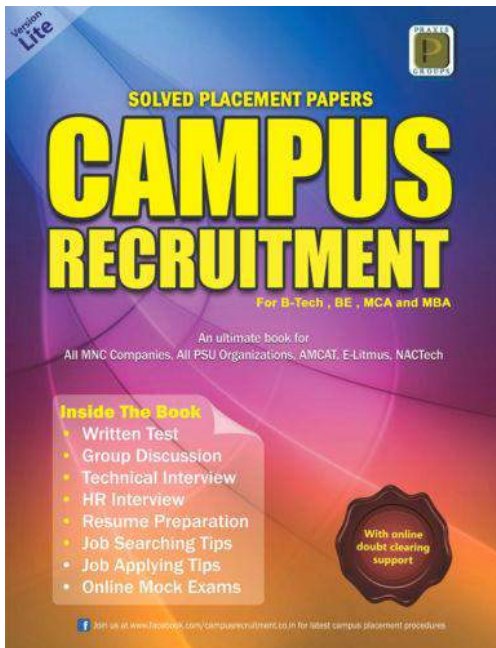a)3 *hrs*   b) 6 *hrs*   c) 12 *hrs* d) 5 *hrs*   e)None

11) The simple interest accrued in four years on a principal of Rs. 20,000 is one tenth of the principal. What is the rate of simple interest per annum?

a) 4   b) 5   c) 6   d) 2   e) None of these

12) The principal that amounts to Rs.4913 in 3 years at $6\frac{1}{4}$% per annum compound interest annually is?

a) Rs. 3096   b) Rs. 4076   c) Rs. 4085

d) Rs. 4096   e) None of these

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69)c; Arguments can be congruent (appropriate), fluent, competent and cogent (convincing), but if they confirm or (validate) or reject or discard the doubts of the listener, they cannot be effective arguments. Means Dispelled, completely dispersed or driven away.

Ask doubt using Question Id: 6562

70)a; The sentence indicates that the person is tolerated because of his sincerity though he is a man of anger. So, one blank should be filled with a positive word and another one with a negative. Amiable means friendly; unwary means innocent, credulous and unsuspecting which cannot collocate with the noun 'honesty'; the adjective 'specious' which means baseless, fallacious and erroneous, doesn't suit. It is 'unwavering' which means firm, resolute and steadfast that is appropriate in the first blank followed by the adjective 'irascible' which means irritable and hot-tempered.

Ask doubt using Question Id: 6563

71)c; Adversity means – hardship, misfortune, difficulty etc., there is no antonym for this word among the other three choices.

Ask doubt using Question Id: 6564

72)c; Allegiance is- loyalty, faithfulness and commitment. The opposite of the word is – treachery meaning – deceit, betrayal and unfaithfulness.

Ask doubt using Question Id: 6565

73)b; Conspicuous means that which is clearly visible, noticeable, striking and prominent.

Ask doubt using Question Id: 6566

74)a; Integrity refers to truthfulness, veracity, reliability and uprightness. Hence, the antonym 'deceitfulness' which means cheating is appropriate. Erudition means knowledge.

Ask doubt using Question Id: 6567

76 to 85 : The paragraph opens with the UN where the assembly session is **76. beginning** shortly; it is a well-**77.known** fact since many other nations also know about the intentions of Pakistan; **78.** Pakistan has been '**campaigning**' against India; alleging is claiming, asserting and emphasizing which can also be an appropriate option in the absence of campaigning. **79.** After the campaigning outside, the next step is to **raise** the issue in the UN. **80.** Indeed, Pakistan is **committed** to the Simla agreement which speaks about the **81. settlement** of the issue. **82.** The noun leeway which means flexibility or advantage indicates that Pakistan has **attained** some advantage **83.** due to the change of political **climate. 84.** since Pakistan could succeed in garnering the support of the several other nations, India could hardly **count** on any power for its support. **85.** *b*. Some nations like USA play the role of a mediator between India and Pakistan; the **attempts** of the USA in resolving the issue might not be a favourable one.

Ask doubt using Question Id: 6568

Practice Paper-9

Quantitative Aptitude

The following graph represents the production of different crops in million tonnes from 2008 to 2013. With the help of this graph answer the question given below:

Production of different corps in million tons
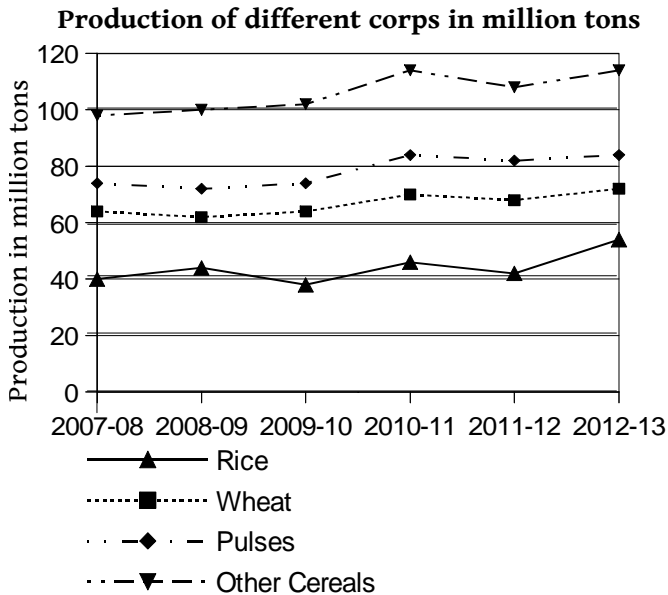
1) For how many years the production of pulses was minimum?

a) 3   b) 2   c) 4   d) 5   e) None of these

2) The rapid production of Other Cereals over the preceding year was maximum in :

a) 2012 – 13   b) 2009 – 10   c) 2010 – 11
d) 2011 – 12   e) 2008 – 09

3) The percentage increase in production of rice over the preceding year was maximum in:

a) 2010 – 11   b) 2012 – 13   c) 2008 – 09
d) 2009 – 10   e) 2011 – 12

4) The average rice production of all over the years.

a) 66   b) 62   c) 63   d) 64   e) 68

5) There are 31 students in a class, including Peter and John. How many ways are there to choose a soccer team (11 players) so that Peter and John are not on the team together?   *(Asked in Google)*

a) $\binom{31}{11}+\binom{30}{10}+\binom{29}{9}$ b) $\binom{30}{11}+\binom{29}{10}+\binom{28}{9}$

c) $\binom{29}{10}+\binom{29}{10}+\binom{29}{11}$ d) $\binom{30}{10}+\binom{30}{10}+\binom{29}{11}$

e) None of these

6) The probability that there is at least one spot in two rolling of a dice is

a) $\dfrac{13}{36}$ b) $\dfrac{5}{18}$ c) $\dfrac{11}{36}$ d) $\dfrac{1}{18}$ e) $\dfrac{5}{36}$

7) If four whole numbers are taken at random and multiplied, the chance that the first digit in their product is 0, 3, 6 or 9 is :

a) $\left(\dfrac{2}{5}\right)^3$ b) $\left(\dfrac{1}{4}\right)^3$ c) $\left(\dfrac{2}{5}\right)^4$ d) $\left(\dfrac{1}{4}\right)^4$ e) $\left(\dfrac{3}{4}\right)^3$

Directions: (8 to 9): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

8) Set J consists of terms { 2, 7, 12, 17, a }. Is $a > 7$?

Statement-1: a is the median of set J.

Statement-2: Set J does not have a mode.

9) What is the value of x?

Statement-1: $6x+4y=30$.

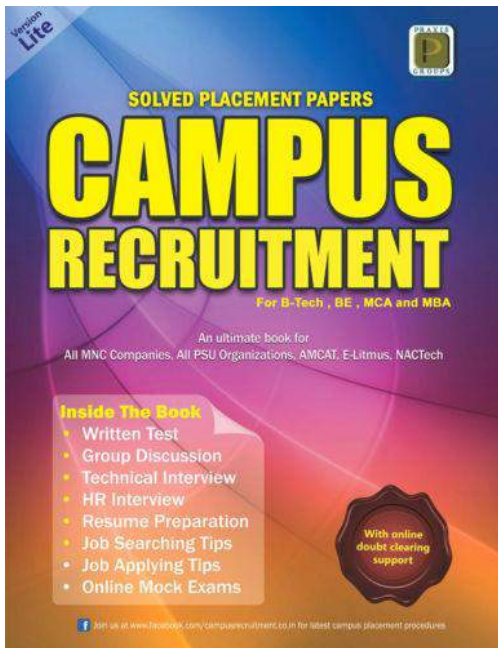**Statement-2:** $x=\dfrac{-2}{3}y+5$.

10) The average speed of a bus is $2\dfrac{1}{2}$ times the average speed of a tractor. The tractor covers 336 km in 21 hours. How much distance will the bus cover in 12 hours.

a) 380 km b) 440 km c) 360 km
d) 460 km e) None of these

11) Mr John took a loan of RS.12000 on simple interest for three years for 4%. The total amount that he pays as interest is equal to 12% of his monthly salary? What is his monthly salary?

a) Rs. 16000   b) Rs. 14000   c) Rs. 12000
d) Rs. 18000   e) Rs. 20000

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76 to 80: Excepting sentences-c and d, the rest of the sentences can be the starters of the passage. If only, we start with b, the sequence can be appropriate; the continuation would be e as it starts with 'the average Indian' referring to 'Indians' of the sentence b in general. Then, speaking in particular, sentence a speaks about the university student. The pronoun 'he' of the sentence c refers to every student of the university. The pronoun 'this' of d refers to what all has been narrated above. Hence the correct sequence is- b, e, a, c and d.

Ask doubt using Question Id: 6654

81)a; The phrase 'in the middle' is appropriate. The centre of the road cannot be defined for a person to stand. Centre is a place at which some specified activity is concentrated - a shopping centre. A person or thing that is a focus of interest; a place of activity or influence: a centre of power. We say –in the middle of the traffic; the middle part of the body (waist); but not the centre part of the body.

Ask doubt using Question Id: 6659

82)d; The phrase 'to bring about' means 'to cause to happen: to bring about a change in the law'.

Ask doubt using Question Id: 6660

83)c; The subject of the sentence is – 'every one of the students' which is singular- hence, the singular verb 'has been'.

Ask doubt using Question Id: 6661

84)a; The sentence is in indirect speech; hence the structure should be – why + Helping verb + sub + Main verb; in the given sentence, the structure is in interrogative form – why + sub + Helping verb + Main verb. For e.g. **A.** I want to know where Ram Naresh is. (correct) **B.** I want to know where is Ram Naresh? The latter sentence is in question format and it cannot be used in indirect speech.

Ask doubt using Question Id: 6662

85)b; 'Remember to meet' somebody means – you have a plan to meet somebody and you remember the programme. Whereas 'remember meeting' is – you have already met the person and you cherish or remember that event.

Ask doubt using Question Id: 6663

Practice Paper-10

Quantitative Aptitude

In the following chart the production of Rice, Wheat and pulses in different years is given in thousand tons: *(Asked in SBI)*

Years	Paddy	Ground Nut	Wheat
2001-02	39578.9	24104.4	10014.2
2002-03	48739.8	28846.3	13039.6
2003-04	41916.8	29009.9	11361.3
2004-05	52670.4	31749.2	11972.4
2005-06	53773.4	35507.8	12182.9
2006-07	42330.3	31830	8571.6
2007-08	53631.4	36312.6	10626.8
2009-09	53493.2	37833.1	11351.3

1) What is the ratio of Ground Nut produced in 2002-03 as compared with 2008-09?

a) 3 : 4   b) 4 : 3   c) 2 : 3   d) 3 : 2   e) 1 : 2

2) Percentage of production of Paddy during 2007-08 as compared to the entire production from 2000 to 2009 is

a) 12.43%   b) 16.82%   c) 13.63%

d) 20.43%   e) 15.72%

3) Average annual production of Wheat in thousand tons is:

a) 11014.76   b) 11140.01   c) 10143.76

d) 11253.38   e) None of these

4) The excess of production of Paddy to the total production of Ground nut and Wheat during 2005-06 in thousand tons is:

a) 5082.7   b) 6092.7   c) 6084.7

d) 6082.7   e) 6086.7

5) A set of 15 different words is given. In how many ways is it possible to choose a subset of no more than 5 words?   *(Asked in BARC)*

a) 4934   b) 4944   c) 4954   d) 4974   e) 4964

6) A group consists of 4 men, 3 women and 2 boys. Three persons are selected at random. The probability that 2 men are selected is;

a) $\dfrac{3}{28}$ b) $\dfrac{7}{28}$ c) $\dfrac{5}{28}$ d) $\dfrac{6}{28}$ e) $\dfrac{5}{14}$

7) The chance of Ram to stand first in the class is $\dfrac{1}{3}$ and that of Abdul is $\dfrac{1}{5}$. The probability that either of the two will stand first in the class is:

$(a)\dfrac{1}{15}(b)\dfrac{8}{15}(c)\dfrac{7}{15}(d)\dfrac{11}{15}(e)$ None   *(Asked in Dell)*

Directions (8 to 9 Questions):

Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer.*

d: If both statements alone are sufficient to answer the question.

e: If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.

8) What is the value of $m + n$?

Statement-1: $jm + kn + nj + km = 36$

Statement-2: $j + k = 12$

9) If 'x' is between 0 and 1?   *(Asked in SAP)*

Statement-1: $x^2 < x$;   **Statement-2:** x is positive.

10) The speed of a truck is $\left(\dfrac{1}{3}\right)^{rd}$ of the speed of a train. The the train covers 1230 km in 5 *hours*. What is the speed of the truck?

a) 85 km/hr b) 82 km/hr c) 81 km/hr

d) 87 km/hr e) None of these

11) A sum of money fetches *Rs.* 240 as simple interest at the rate of 5 *p.c.p.a* after 6 years. What is the principal?

a) *Rs.* 200   b) *Rs.* 400   c) *Rs.* 800
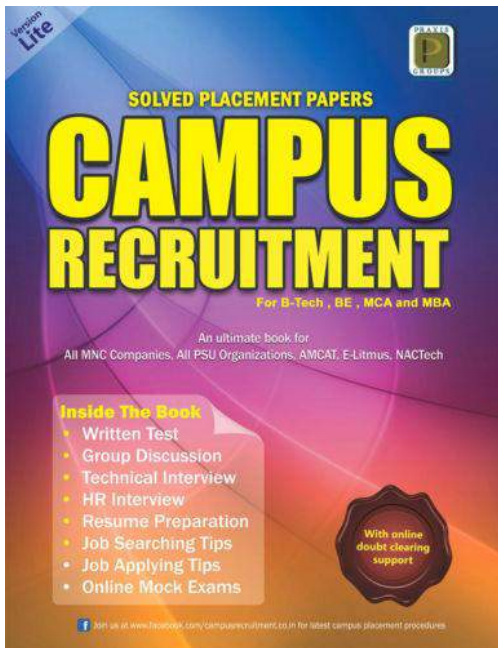
d) *Rs.* 1200   e) None of these

12) What is the difference between the compound interest on *Rs.*2000 for 1 year at 20% per annum compounded yearly and half yearly?

a) Rs.10   b) Rs.20   c) Rs.36   d) Rs.52   e) Rs.64

13) A 240 meter long train crosses a platform of equal length in 27 seconds. What is speed of the train in *km/hr*?

a) 48   b) 60   c) 56   d) 64   e) None of these

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62)a; The clue words of the sentence are- 'most unfortunate', 'crafty' and 'wily'. The sentence gives the meaning that those who are sincere and conscientious (meaning meticulous, diligent and reliable) are suffering and those who are crafty and wily (meaning – cunning) are thriving i.e. prospering and blooming.

Ask doubt using Question Id: 6725

63)d; Certain statutory bodies as mentioned above should be brought under the control or ambit (means – realm, domain, sphere) of some other body; - 'power' also seems to be appropriate, but more suitable is 'ambit' as it refers to higher range control.

Ask doubt using Question Id: 6726

64)b; Assuage is to lessen, alleviate and diminish. Aches and pains should be assuaged by the drugs, prescribed by the medical practitioner.

Ask doubt using Question Id: 6727

65)d; Vertigo is a sensation of dizziness or abnormal motion resulting from a disorder of the sense of balance; A confused, disoriented state of mind. The meaning of the sentence is that the actress might have suffered from the intoxication of success in the career.

Ask doubt using Question Id: 6728

66)c; The correction is in the second part of the sentence - instead of 'that of' 'those of' is appropriate.

Ask doubt using Question Id: 6729

67)b; In this sentence the appropriate preposition with the verb prepare is - to.

Ask doubt using Question Id: 6730

68)b; Impervious means solid, unbending, inflexible and unyielding. It takes 'to' as its preposition.

Ask doubt using Question Id: 6731

69)b; The second part of the sentence is given in passive voice; hence- driven takes 'by'.

Ask doubt using Question Id: 6732

70)a; Acoustics is a subject; hence it takes a singular verb.

Ask doubt using Question Id: 6733

71)c; It should be 'the USA'.

Ask doubt using Question Id: 6734

72)c; The verb should be – 'have been' instead of 'has been' since it refers to 'all the passages in Macbeth'.

Ask doubt using Question Id: 6735

73)b; The appropriate preposition is 'of', not 'in'.

Ask doubt using Question Id: 6736

74) b; In the last week is wrong; it should be - the last week.

Ask doubt using Question Id: 6737

75)a; Since the tense indicates two past actions, the verbs should be in the past and past participle and also the structure should be – Hv + sub + MV – had I listened.

Ask doubt using Question Id: 6738

76 to 81: It can be understood that the passage is dealing with handling thoughts and reading - F begins the topic - E would be the second sentence as it speaks about reading a book about which the opening sentence F speaks. B further speaks about the advanced way of reading a book. The first words of the sentence of C speak about the book that is mentioned in B. The possibility of reading a book very skillfully is mentioned in D- reading a book requires language and this sentence speaks about learning language. The concluding sentence is–A as it speaks about not just reading a book, but understanding the thought of a person. Hence the order of the passage is- F, E, B, C, D, A.

Ask doubt using Question Id: 6739

82 to 85: The passage speaks about the fear complex of the people. The author says that mankind alone is living in fear when compared to rest of the species. Author mentions that 'fear has become a predominant trait'. Hence- 27-*c*; so also the author opines that what happens if somebody else claims his thoughts as his? One need not be pained or perturbed. Hence 28-*c*; the author's tone is satirical as he is commenting on mankind's meaningless fears; 29-*d*; the author is not just speaking about all men and women, but the intellectual man especially; hence option-*c* would be appropriate title- 30- *c*.

Ask doubt using Question Id: 6745

Practice Paper-11

Quantitative Aptitude

The findings of a survey into how people travel to work (presented as pie chart) are shown below.
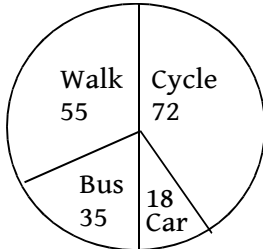
Note: 1 in 8 of the people who cycled to work were found to be over 65 years of age .

1 in 3 of the cyclist stated that they traveled to work by bus on rainy days.

1) How many more respondents indicated that they walked to work rather than traveled by bus?

a) 55   b) 35   c) 20   d) 18   e) 21

2) How many more people indicated that they cycled to work compared with those who traveled by either bus or car?

a) 72   b) 35   c) 18   d) 19   e) 55

3) The sum of which categories, if any, represents half the number of responses represented in the survey?

a) Cycle and car   b) Bus and car

c) Walk and bus   d) Walk and cycle

e) Walk and car

4) How many degrees of arc in the pie chart represent each response in the survey results?

a) 8^0 b) 6^0 c) 4^0 d) 2^0 e) 10^0

Directions(5 to 7): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*
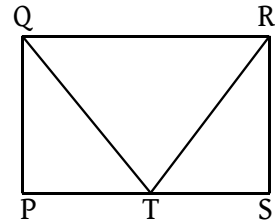
5) For a positive integer 'a', is the product $(a)(a+1)(a+2)$ divisible by 48?

Statement-1: a is even.

Statement-2: $4a$ is divisible by 32.

6) In a rectangular region PQRS beside, T is a point on side PS; if PS = 4, What is the area of region PQRS?
(Asked in NTPC)

Statement-1: ΔQTR is equilateral.

Statement-2: Segment PT and TS have equal length.

7) If $xy \neq 0$, is $\dfrac{1}{x} + \dfrac{1}{y} = 16$?

Statement-1: $x + y = 16xy$;

Statement-2: $x = y$

8) Ramu is renting DVDs from the video store. He must choose three DVDs from a list of eight new releases and then decide in what order to watch them. How many different schedules of DVDs can he create, if he cannot watch the same movie more than once?

a) 24   b) 56   c) 72   d) 336   e) 512

9) An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon?

a) 144^0 b) 150^0 c) 168^0 d) 180^0 e) 190^0

10) Mike, a DJ at a high school radio station, need to play two or three more songs before the end of the school dance. If each composition must be selected from a list of the 10 most popular songs of the year how many unique song schedules are available for the remainder of the dance, if the songs cannot be repeated?
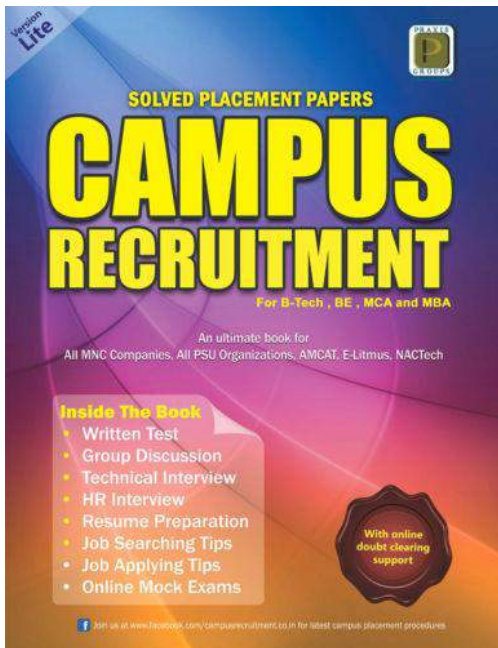
a) 6   b) 90   c) 120   d) 720   e) 810

11) A = {2 , 3 , 4 , 5} B = { 4 ,5 ,6 ,7 ,8 }. Two integers will be randomly selected from the sets above: One integer from set A and one integer from set B. What is the probability that the sum of the two integers equals 9?

a) $\dfrac{3}{20}$ b) $\dfrac{1}{5}$ c) $\dfrac{1}{4}$ d) $\dfrac{3}{10}$ e) $\dfrac{1}{3}$

88)c; 'Poetry' and 'Prose' are two genres of literature. Hence 'blurred distinction between genres' could imply that there would be very little difference between different literary forms. Prose rather than poetry is more documentary but according to the passage, the thin line of difference could result in poetry becoming more like prose.

Ask doubt using Question Id: 6836

89)c; The passage mentions that rigid genre distinctions were rejected by both modernism and postmodernism. Modernism did not result from Victorian standards and it did not only touch upon literary circles. Option B is not relevant to the context. According Paragraph 3 'though traces of it in emergent forms can be found in the nineteenth century as well'. Hence the key is *c*.

**Ask doubt using Question Id: 6837**

90)d; The author has not concentrated on either bringing about differences or similarities between modernism and postmodernism. The passage also does not exclusively explain the benefits of post modernism. Deviant forms of art are not discussed. The author's intent can be best described as having evaluated the principles of modernism and postmodernism.

Ask doubt using Question Id: 6838

Practice Paper-12

Quantitative Aptitude

Distribution of women across professional and managerial grades. The distribution of women across professional and managerial grads in 'AMC' corporation is shown below.

Professional   Managerial
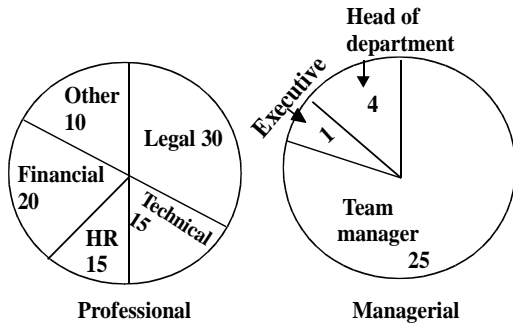
Note: There are five times as many men in professional grades as women. The corporation employs a total of 1300 staff in both professional and managerial grades.

8% of the total work force at the corporation is employed in professional and managerial grades.

1) How many women hold professional grades in 'AMC' corporation?

a) 120   b) 110   c) 100   d) 90   e) 80

2) In total, how many staff (both men and women) are employed in professional grades in the corporation?

a) 540   b) 450   c) 360   d) 270   e) 180

3) What fraction of women in managerial grades is in head of department or executive grades?

a) $\dfrac{1}{4}$ b) $\dfrac{1}{5}$ c) $\dfrac{1}{6}$ d) $\dfrac{1}{7}$ e) $\dfrac{1}{8}$

4) What percentage of women in professional grades are in Legal and Human Resources Combined?

a) 50%   b) 45%   c) 33%   d) 30%   e) 27%

Directions(5-7): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) How many students in the senior class take both french and Spanish?

Statement-1: In the senior class, 100 students take French and 125 students take Spanish.

Statement-2: There are 200 students in the Senior class.

6) Is $x > 0$?

Statement-1: $x^2 = 9x$

Statement-2: $|x| = -x$

7) What is the average of the terms in set J?

Statement-1: The sum of any three terms in set J is 21.

Statement-2: Set J consists of 12 total terms.

8) In how many unique ways can the letters in 'ENGINEERING' be arranged?   *(Asked in CTS)*

a) 277200   b) 267200   c) 257200

d) 277020   e) 277002

9) There are 4 identical copies each of five different magazines. In how many ways can the magazines be arranged in a row an a shelf, if nothing else is arranged with them?

a) $\dfrac{5!}{4!}$ b) $\dfrac{5!}{(4!)^5}$ c) $\dfrac{20!}{(5!)^4}$

d) $\dfrac{20!}{(4!)^5}$ e) $\dfrac{20!}{(5)^{4!}}$

10) At a campus placement, there are eight women and five men competing for the three male and three female executive positions. How many different combinations of executive are possible on the final interview for the six executive positions?
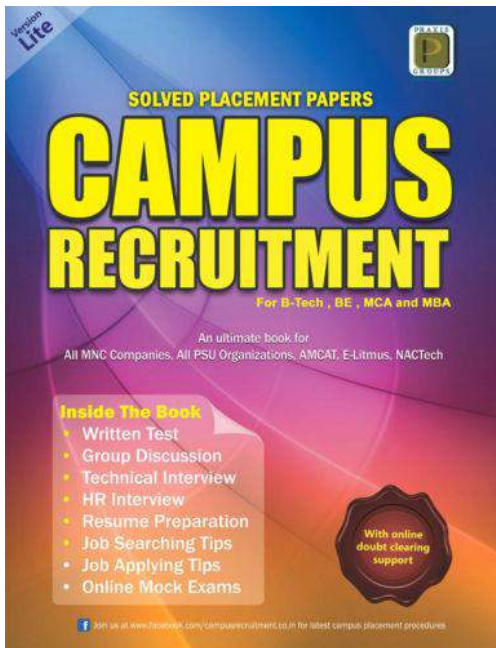
a) 112896   b) 3316   c) 560   d) 66   e) 18

11) If number N is randomly drawn from set of all non-negative single digit integers, what is the probability that $\dfrac{5N^3}{8}$ is an integer?

a) 20%   b) 30%   c) 40%   d) 50%   e) 60%

12) Number N is randomly selected from the set of integer between 50 and 69, inclusive. What is the probability that N will have the same number of factors as 89?   *(Asked in BSNL)*

a) 10%   b) 13%   c) 17%   d) 20%   e) 25%

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78)c; 'His modularity theory is distinct...'; Here, the antecedent for his is 'Fodor'. Fodor propounded that the modularity theory was a cognitive architecture theory. The theory was however distinct from the massive modularity thesis. The statement after R is P wherein Fodor explains how the theory is distinct from massive modularity thesis. 'These parts in our mind' in statement S refers to the 'input systems' in statement P. Hence S follows P. The last statement is Q as it explains how the output is fed to the central nervous system.

Ask doubt using Question Id: 6917

79)b; 'Feather in the cap' means an achievement to be proud of.

Ask doubt using Question Id: 6918

80)a; 'Skeletons in the closet' means many shameful secrets.

Ask doubt using Question Id: 6919

81)b; 'To end in smoke' means to be ruined.

Ask doubt using Question Id: 6920

82)c; 'A man of no straw' means an unworthy person.

Ask doubt using Question Id: 6921

83)c; 'Fecund' - means fertile. Ferocious means dangerous.

Ask doubt using Question Id: 6922

84)c; 'Maudlin' means sorrowful. In the word 'Dolorous' the root word 'dol' means sorrow.

Ask doubt using Question Id: 6923

85)c; 'Pithy' means a short saying. The opposite 'Verbose' means wordy.

Ask doubt using Question Id: 6924

86)a; 'Scurrilous' means insulting. The opposite is polite.

Ask doubt using Question Id: 6925

87)b; According to the passage, very few people in the western society accepted his ideas on capitalism. So they were not exactly pro-Marxists. Capitalism had to be shunned according to Marx. So there is not question of juxtaposing socialism and capitalism. Marx's views on Society were appreciated by the westerners where as his political views were not regarded in the same light. According to Marx, establishment of a communist society could destroy capitalism.

Ask doubt using Question Id: 6926

88)c; According to Hegel, ideas were the chief determinants of history, but could not change the same. Marx argued that material and economic conditions resulted in influential ideas. It was Hegel's philosophy that ideas determined a society's functioning. Marx was against 'reformers who thought that mere change in ideas can change society'. Hence the key is option-*c*.

Ask doubt using Question Id: 6927

89)c; According to the passage, Marx's categories of society were Primitive (Archaic), feudal, Slave and Capitalist(last paragraph).

Ask doubt using Question Id: 6928

90)b; According to the passage, In capitalist society capital, machinery, mines, factories etc. are the key productive factors and these are owned and controlled by capitalists where as in socialism, these factors are owned by all the members of the society. The sharing of factors is not based on hierarchies. Flexibility and oppressiveness has not been discussed in the passage

Ask doubt using Question Id: 6929

91)d; Since in the last paragraph, there is a mention of 'factors' of production, the author alludes us to different aspects of production. The mention of 'these two factors as the main type of determinant of the type of society' implies the relationship between the key production factors.

Ask doubt using Question Id: 6930

Practice Paper-13

Quantitative Aptitude

Read the following data carefully and answer the questions that follow

1 Select a destination	2 Select a Train	3 Select number of passengers	4 Select further option

P	P 08:00 $225.00 P 17:00 $75.00	P 1 2 3 4 P 1 2 3 4
Q	Q 06:00 $142.00 Q 21:00 $98.00	Q 1 2 3 4 Q 1 2 3 4
R	R 11:00 $63.00 R 22:00 $72.00	R 1 2 3 4 R 1 2 3 4
S	S 08:00 $80.00 S 16:00 $104.00	S 1 2 3 4 S 1 2 3 4

Luggage in hold → Yes * Add $20 per item.
No → Travel Insurance → Yes * Add $9
No → Environmental offset → Yes * Add $3.50
No → Proceed to checkout

* These additional costs apply to each passenger per flight

1) How much is added to a train if all options are selected (includes only one item of luggage)?
a)$32.50 b)$32.00   c)$31.50 d)$31.00 e)$30.50

2) How much would be the cost of a train at 8.00 to destination P from 3 passengers who select none of the further options?
a) $670 b) $675   c) $680 d) $685   e) $690

3) How much more expensive in the morning train compared with the afternoon train to destination P, expressed as on multiple?
a) ×3   b) ×4   c) ×5   d) ×6   e) None of these

4) What is the percentage difference between the afternoon and morning flight to destination S?
a) 25%   b) 30%   c) 35%   d) 40%   e) 45%

Directions(5 to 7): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) Does $x = 2$?
Statement-1: x is a number such that $x^2 - 3x + 2 = 0$
Statement-2: x is a number such that $(x^2 - x - 2) = 0$

6) Is y less than 2.4?
Statement-1: $y < 2.5$ **Statement-2:** $y < 2.3$

7) If $20x + 30y = 280$, what is the value of x?
Statement-1: $4x = 56 - 6y$; **Statement-2:** $y^2 = 16$.

8) A committee of four is to be chosen from seven employees for a special project at ACME corporation. Two of the seven employees are unwilling to work with each other. How many committees are possible if the two two employees do not work together?
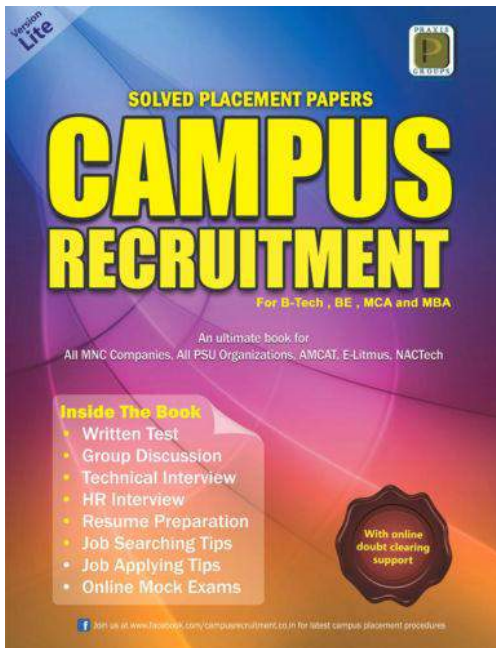a) 15   b) 20   c) 25   d) 35   e) 50

9) At a certain laboratory, chemical substances are identified by an unordered combination of three different colors. If no chemical may be assigned the same three colors as any other. What is the maximum number of substances that can be identified using seven colors?   *(Asked in Deloitte)*
a) 21   b) 35   c) 105   d) 135   e) 210

10) A license plate consists of a combination of six digits or letters. All numbers (0-9) and all 26 letters may be used. How many unique license plates are there?

a) 36^6 b) $\dfrac{36!}{30!\,6!}$ c) $\dfrac{36!}{30!}$ d) $\dfrac{36!}{6!}$ e) 30!

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83)a; 'Jet' means to throw; 'Jettison' means to discard or throw overboard. The opposite is 'retain'.

84)c; 'ben' means good. Benign means harmless.

85)a; 'Post' means after. 'Prandial' means meal ('Prandie' in Latin means a meal).

86)d; Stems cells are unspecialized. But according to the first paragraph of the passage, when they divide, stem cells can give rise to specialized or unspecialized cells.

87)c; In A, the cell group has to replicate for many months and not days, as per the first paragraph. Only cells that are unspecialized can renew themselves according to the second paragraph. According to the third paragraph, because stem cells do not have specific tissue structures, they are unspecialized. The process in D is 'differentiation'.

88)d; According to the second paragraph, stem cells themselves cannot perform any function with their neighbours. However, they can give rise to specialized cells like heart muscle cells and red blood cells.

89)c; Specialized cells are not randomly produced. According to paragraph 3, the internal gene has to interact with the external microenvironment. When this interaction happens, the DNA restricts and the same gets passed on to the child cell, thereby rendering it specialized.

90)b; Observe the last sentence 'additional research using adult stem cells is necessary to understand their full potential as future therapies'...'is necessary' suggests that the author is advising.
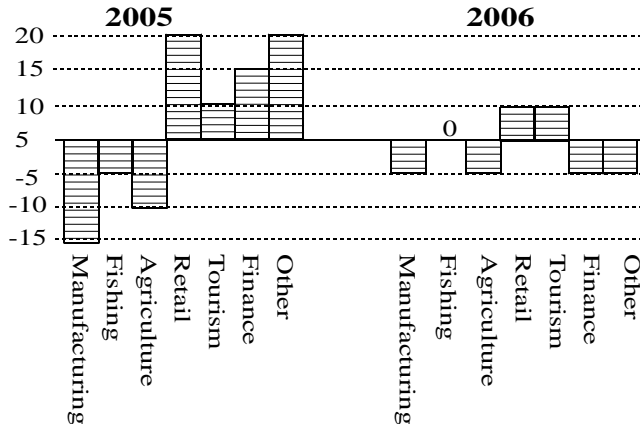
Practice Paper-14

The given data sets gives the predicted change in employment by industrial classification.

1) In 2005, which industrial clarification(s) is/are predicted to increase by the greatest percentage?
a) Heavy manufacturing and other
b) Retail
c) Heavy manufacturing, retail and other
d) Retail and other   e) Tourism

2) By what percentage is fishing predicted to decrease over the two years?
a) –5%   b) 5%   c) 0%   d) 10%   e) 12%

3) In 2006, which classification is predicted to increase by the least?
a) fishing   b) finance
c) heavy manufacturing   d) retail marketing

4) In 2006, is a cumulative increase or decrease predicted?
a) Increase ≥ 10%   b) Decrease ≤ 10%
c) Increase ≤ 10%   d) Decrease ≥ 10%
e) None of these

Directions(5 to 7): Read the following question and the conclusions that follow and answer as
a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*
b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*
c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*
d: *If both statements alone are sufficient to answer.*
e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) If 'y' is an integer, is y^2 divisible by 4?
Statement-1: y is even;
Statement-2: y^3 is divided by 4.

6) Is $xy < 8$?
Statement-1: $x < 2$ and $y < 4$
Statement-2: $0 < x < \dfrac{1}{2}$ and $y^2 < 225$

7) What is the value of two digit integer x?
Statement-1: The product of the two digits is 14
Statement-2: x is divisible by 9.

8) Assuming that there are no ties, how many different out comes are possible in a race with five athletes?
a) 25   b) 120   c) 240   d) 360   e) 720

9) In how many different ways can a cricket team finish the trophy with total 6 matches of three wins, two losses, one draw.
a) 6   b) 20   c) 60   d) 120   e) 240

10) A university offers four kinds of courses; Physics, Civil, Mechanical and Electronics. If a student has the option (but not the obligation) to add extra circular activities Dance, Sports, or both to any kind of Course. How many different courses are available?   *(Asked in Microsoft)*
a) 4   b) 8   c) 12   d) 16   e) 32

11) Number N is randomly selected from a set of all primes between 30 and 60 inclusive. Number K is selected from a set all multiples of 5 between 30 and 60 inclusive. What is the probability that N + K is odd?
a) $\dfrac{1}{2}$ b) $\dfrac{2}{3}$ c) $\dfrac{3}{4}$ d) $\dfrac{4}{7}$ e) $\dfrac{5}{8}$

12) Operation "$" is defined as adding a randomly selected two-digits multiple of 8 to a randomly selected two-digit prime number and reducing the result by half. If operation "$" is repeated 10 times. What is the probability that it will yield at least two integers?   *(Asked in Blue star)*
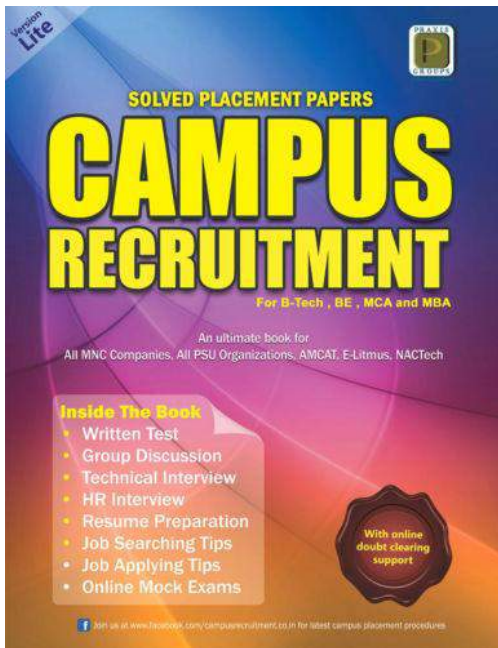a) 0%   b) 10%   c) 20%   d) 30%   e) 40%

13) Find the angle between the hour hand and the minutes hand of a clock when 3.25
a) 32^0 b) $47\dfrac{1}{2}^0$ c) $49\dfrac{1}{2}^0$ d) 37^0 e) $45\dfrac{1}{2}^0$

(Asked in Intel)

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86)c; Refer to the last paragraph of the passage. The passage begins with an undertone on the bank stocks. In line 3, 'Since November 2010, these stocks have delivered a negative return', means that the performance of the stocks has been lackluster.

Ask doubt using Question Id: 7106

87)a; According to paragraph 3, 'since the yield on the 10-year benchmark came down from 9.5% to 5.5% in March 2009, indicating a rise in the price of the bonds, leading to a higher mark-to-market profit on their investment portfolio'.

Ask doubt using Question Id: 7107

88)d; The passage does not explain in detail about the economic growth, market conditions or success of PSUs. The performance of banking sector in India is the central issue of the passage.

Ask doubt using Question Id: 7108

89)d; According to the passage, the last line of paragraph 4 states that increase in the policy rates by 250 basis points by the RBI has resulted in an increase in the lending rates, because of which PSUs are performing negatively.

Ask doubt using Question Id: 7109

90)a; The author, in the first paragraph has stated positive things about the banking sector in India. His tone thus is 'upbeat'.

Ask doubt using Question Id: 7110

Practice Paper-15

AT&M is a company that sells sweets in India. The companies revenue targets are presented in the tables. Analyze them to answer the questions that follow.

Sweets	Revenue 2006 ($000,000)	Revenue growth target for 2007	% annual revenue growth target for 2008
Barfi	1.2	24000	3
Laddu	0.7	5250	1
Ras Malai	2.4	72000	4
Jalebi	1.3	6500	2.5
Halwa	1.8	27000	2

1) What will be the revenue generated from Ras Malai in 2007 if the target is realized?

a) $2,472,000   b) $3,120,000   c) $2,407,200

d) $72,002.4   e) None

2) What is the total revenue for the year 2006?

a) $7,300,000   b) $7,400,000   c) $7,500,000

d) $7,600,000   e) $7,550,000

3) What will be the total revenue for the year 2007 if targets are realized?

a) $146,810   b) $7400000   c) $7534750

d) $7740000   e) $7500450

4) What is the % target increase in revenue in 2007 for the Barfi line?

a) 1%   b) 2%   c) 3%   d) 4%   e) 5%

Directions(5 to 7): Read the following question and the conclusions that follow and answer as

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) Is x^2 equal to xy?

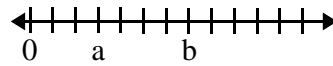**Statement-1:** $x^2 + y^2 = -(x^2 - y^2)$;

Statement-2: $x = y$.

6) If $2.5 < x < 4.5$; Is the tenths digit of the decimal representation of x equal to 4?

Statement-1: $x + 0.006 < 45$;

Statement-2: $x + 0.06 > 45$;

7)

If the successive tick marks shown on the number line above are equally spaced and if 'a' and 'b' are the numbers designating the end points of intervals as shown, what is the value of 'b'?

Statement-1: $a = \dfrac{1}{4}$; **Statement-2:** $b - a = \dfrac{1}{3}$

8) If an employee ID code must consist of three non-repeating digits, and each digit in the code must be a prime number. How many ID codes can be created?   *(Asked in Zensar)*

a) 12   b) 24   c) 60   d) 120   e) 240

9) How many two–element subsets of {1, 2, 3, 4} are there that do not contain the pair of elements 2 and 4?

a) 1   b) 2   c) 4   d) 5   e) 6

10) A car is available in seven different exterior colors and six different interior colors. How many unique color combinations are possible?

a) 26   b) 42   c) $\dfrac{7!\,6!}{2!}$ d) 7!6!   e) $\dfrac{13!}{2!}$

11) If the probability of rain on any given day is 50%, what is the probability that it will rain on at least three days in a row during a five day period?

a) $\dfrac{3}{32}$ b) $\dfrac{1}{4}$ c) $\dfrac{9}{32}$ d) $\dfrac{5}{16}$ e) $\dfrac{1}{2}$

12) If four fair dice are thrown simultaneously, what is the probability of getting at least one pair?

a) $\dfrac{1}{6}$ b) $\dfrac{5}{18}$ c) $\dfrac{1}{2}$ d) $\dfrac{2}{3}$ e) $\dfrac{13}{18}$

13) At what time between 2 and 3 O'clock will the hands of a clock be together.
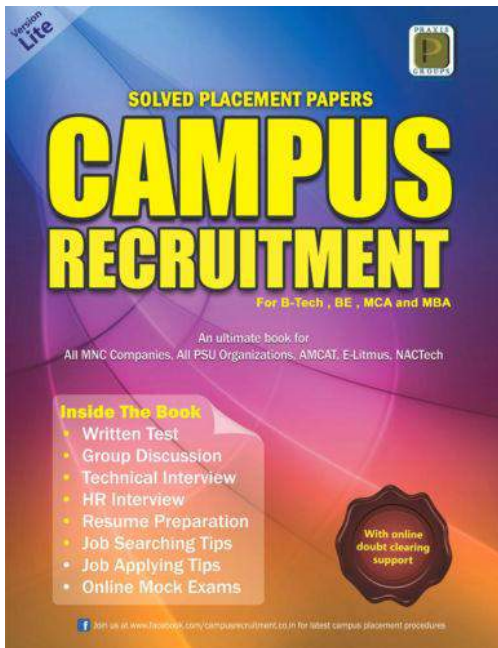
a) 45 min past 2   b) 40 min past 2

c) $\dfrac{120}{11}$ min past 2   d) $54\dfrac{6}{11}$ min past 2

e) 50 min past 2

14) What is the average of first 20 multiplies of 5.

a) 50   b) 52.5   c) 55   d) 57.5   e) None

(Asked in Unisys)

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71)a; Here the proper noun should precede by 'a'. This is correct because 'a' here refers to 'one'. 'that' is a relative pronoun used for inanimate things or abstract nouns. 'Whom' is appropriate as it is a relative pronoun used for people and it is in the objective case. Using the proper noun Mrs. Diaz without an article would be inappropriate as the sentence conveys that Mrs. Diaz is known to the subject to be some other person.
Ask doubt using Question Id: 7180

72)d; *All's* is a contraction of '*All is*'. Here 'ends' does not indicate plural or possessive as it is a verb and not a noun. Since 'All' is used as a singular subject, the verb for this is ends(We say she *knows*, they *know*)
Ask doubt using Question Id: 7181

(73 to 76) 73)a   74) a 75) a 76) e
The first sentence is the most generic of all the other sentences and thus opens the paragraph. In sentence 4, 'they' refers to the Naga tribe. Hence 4 follows 1. 'This God' in sentence 3 refers to the God mentioned in sentence 4. Hence 3 follows 4. Sentence 5 follows sentence 3 as it opens reference to the religious life of the tribal. Sentence 6 is an extension of sentence 5 as it continues the discussion about the religious beliefs of the Naga tribes. The last sentence is 2. 'also' is an extension of the religious beliefs of the Nagas. Hence, the rearrangement is 1 4 3 5 6 2.
Ask doubt using Question Id: 7182

77)d; The statement after 1 is S. Notice 'the hydrogen gas'. The mention of 'gas' has its antecedent in 1. So does 'nebula'. The statement to follow S is Q. 'As the gas...' . The gas here refers to 'hydrogen' mentioned in statement S.
In statement Q, the star heats up. The continuity is in R (The explanation about the temperatures and the mention of cloud's core). After R comes the statement P. In **6**, 'it' refers to the star.
Ask doubt using Question Id: 7186

78)b; 'To thumb one's nose' is to 'scorn' or 'to show disrespect'.
Ask doubt using Question Id: 7187

79)c; 'Flutter in the dovecote' means to cause disturbance within a group.
Ask doubt using Question Id: 7188

80)c; To feel 'under the weather' means to feel sad and dejected.
Ask doubt using Question Id: 7189

81)b; 'Pushing up daisies' means to be dead.
Ask doubt using Question Id: 7190

82)a; 'Lackadaisical' means to lack 'enthusiasm'. The opposite is 'assiduous' or zealous.
Ask doubt using Question Id: 7191

83)a; 'Grandiloquence' means 'Highly artificial and pretentious talk' ('locu' means talk). The opposite is 'plain'.
Ask doubt using Question Id: 7192

84)c; A 'lacuna' is an unfilled gap.
Ask doubt using Question Id: 7193

85)b; 'Unruffled' means to be calm and composed.
Ask doubt using Question Id: 7194

86)c; Refer to the last line of the second paragraph- 'National competition became the key characteristic of the age.' The Nations had no intention of waging war or aggrandizing(extending their military might).
Ask doubt using Question Id: 7195

87)c; Refer to lines 5-7 of paragraph 3. 'many of them strongly nationalist in outlook -- had begun to emerge. The new working classes, thrown up by rapid industrialization, offered a different kind of threat'.
Ask doubt using Question Id: 7196

88)b; Refer to line 2 of the last paragraph – '. In the 10 years before 1914, many such crises had arisen' .According to the passage, there was a growing sense of antagonism and instability between the European powers because of the armaments they possessed. It was not any of the individual factors mentioned in A, C and D.
Ask doubt using Question Id: 7197

89)b; Although the passage begins with the aftermath of the World war-I, the theme of the passage predominantly revolves around the causes that led to the world War-1.
Ask doubt using Question Id: 7198

90)a; According to paragraph 1, Germany was insulted by the allied powers. Hence, option d is correct. The first line of the second paragraph alludes that the Allied powers held Germany responsible for the outbreak of the war. Hence B is true. Factors A and C have not been stated in the passage.
Ask doubt using Question Id: 7199

Practice Paper-16

Directions (1-4): *AMC a software company employs a total of 54000 employees, including a team of engineers drawn from all over the world. All immigrant engineers at AMC corporation is shown below*
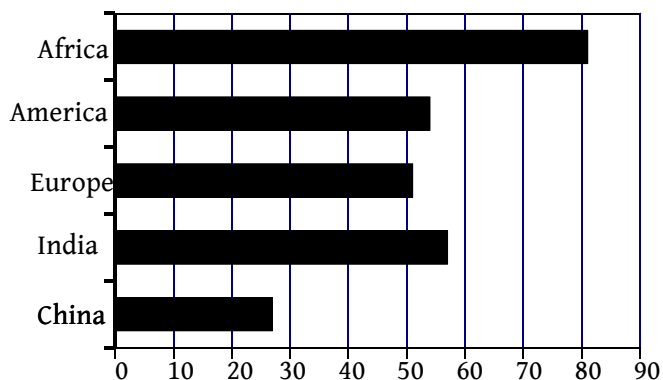
1) How many engineers are there in AMC corporation?
a) 270   b) 269   c) 268   d) 271   e) Cannot tell

2) Express the number of Engineers identified on the graph from the continent of America as a ratio to the total number of immigrant engineers.
a) 1 : 6   b) 1 : 5   c) 1 : 4   d) 1 : 3   e) 1 : 2

3) What percentage of the total number of immigrant Engineers are from Africa?
a) 20%   b) 25%   c) 30%   d) 35%   e) 40%

4) What proportion of the total number of immigrant engineers are from India and the continent of Europe combined?
a) 0.4   b) 0.37   c) 0.34   d) 0.3   e) 0.35

Directions (5 to 7 questions): Read the following question and the conclusions that follow and answer as,

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) Is the area of circle 'A' greater than the area of circle B?

Statement-1: Circumference of circle A is greater than the circumference of circle C, and the circumference of circle C is less than the circumference of circle B.

Statement-2: The radius of circle A is greater than the radius of circle B.

6) Is the positive square root of the '*a*' an integer?

Statement-1: $a = b^4$ and b is an integer

Statement-2: $a = 81$.

7) Is x a positive number?

Statement-1: $-5x-3 > -2x$

Statement-2: x^2 is positive.

8) In a room there are 10 people and each person shakes hand with every one else exactly once, how many hands shakes takes place?
a) 45   b) 60   c) 90   d) 30   e) None

9) In a cloth showroom there are four kinds of belts, three kinds of ties, two kinds a shoes, and seven kinds of dresses. In how many ways can a person decorate himself if he wants to select only one belt, one tie and one of the following: a shoe or a dress?   *(Asked in HAL)*
a) 4×3×2   b) 4×3×7   c) 4×3×9
d) (4×3×2)+(4×3×7)   e) None

10) Two dice are rolled, what is the probability of getting two numbers whose sum is odd?
a) $\frac{3}{36}$ b) $\frac{6}{18}$ c) $\frac{18}{36}$ d) $\frac{6}{36}$ e) None

11) Two cards are drawn together from a pack of 52 cards. The probability that one is red and one is diamond is?
a) $\frac{26}{52}$ b) $\frac{13}{12}$ c) $\frac{1}{3}$ d) $\frac{1}{26}$ e) $\frac{1}{52}$
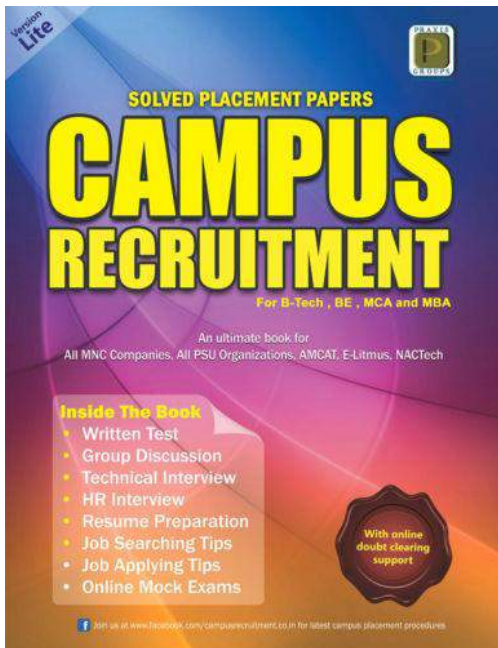
12) A box contain balls numbered 1 to 40, and a ball is drawn at random. What is the probability that the ball is multiple of 5 & 7?
a) $\frac{4}{10}$ b) $\frac{3}{10}$ c) $\frac{2}{10}$ d) $\frac{1}{10}$ e) None

13) A train of 100 cm long is running at a speed of 25 *km/hr*. Find the time taken by it to pass a man standing near the railway line. (approximately)
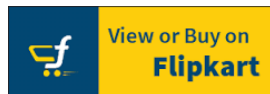a) 13 *sec*   b) 14 *sec*   c) 15 *sec*   d) 16 *sec*   e) 17 *sec*

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65)b; 'Rice and dal' represents one idea. Hence it must be used in singular.

Rice and dal is my favourite dish.

Ask doubt using Question Id: 7282

66)b; The sentence implies that people are 'dejected' by the present form of Government. 'Jaded' means dejected or disappointed.

Ask doubt using Question Id: 7283

67)a; Here, the blank takes a positive 'adjective'. The word 'vivacious' is an adjective which means very jovial.

Ask doubt using Question Id: 7284

68)c; The sentence implies that the boy has changed his conduct and become more social. Hence he was 'reticent' or reserved by nature.

Ask doubt using Question Id: 7285

69)c; Hubris means arrogance. The failure could have been only due to a negative quality. Cowardice does not lead to failure on job.

Ask doubt using Question Id: 7286

70)c; Fragrant means aromatic. Flagrant means wrong.

Ask doubt using Question Id: 7287

71)d; 'prefer' should be followed by 'to' but not 'than' while making comparisons.

Ask doubt using Question Id: 7288

72)a; The sentence when expanded becomes '*I like you better than I like him*'. Hence third person in objective case is required.

Ask doubt using Question Id: 7289

73)b; 'like' is a preposition and 'as' is a conjunction. But 'as if' and 'as though' can introduce the clauses.

Ask doubt using Question Id: 7290

74)b; Here 'less' is not used for comparison. Hence use 'less' instead of 'lesser'.

Ask doubt using Question Id: 7291

75)d; The parallelism must be maintained throughout the sentence.

Ask doubt using Question Id: 7292

76)b; Ask doubt using Question Id:7293

77)a; 'Exonerate' means absolve (someone) from blame. 'Apathy' means indifference. 'Empathy' means concern. 'Prudent' means wise.

Ask doubt using Question Id: 7294

78)a; 'Torpid' means 'slow'. 'Turbid' means thick and dense.

Ask doubt using Question Id: 7295

79)c; 'Indict' and 'convict' mean to 'charge'. 'Persecute' means to 'harass'.

Ask doubt using Question Id: 7296

80)c; 'Neo' means new. A beginner is called a 'neophyte'.

Ask doubt using Question Id: 7297

81)c; 'Indigenous' means 'native'. 'ingenious' means clever. The other two words are irrelevant.

Ask doubt using Question Id: 7298

82)a; 'Narratives' are a series of events. 'Anecdotes' are actual events that have taken place.

Ask doubt using Question Id: 7299

83)d; 'Transitory' means temporary; 'Rambling' means incoherent speech. 'Perspective' means view.

Ask doubt using Question Id: 7300

84)a; 'Stride' means step. It cannot be, 'stride', 'equity' or 'bias' of an all-embracing universe. It is 'principle'.

Ask doubt using Question Id: 7301

85)b; The Great Spirit means God and God is 'omniscient'.

Ask doubt using Question Id: 7302

86)c; The taxes in the United States of America are imposed across different levels. Hence the taxation depends on the state and local government agencies.

Ask doubt using Question Id: 7303

87)a; The passage explains that major impact of the French revolution was the change in the political ideas and set up since the authority of the kings, the church and noblemen was questioned by the people and this saw the uprising of democracy.

Ask doubt using Question Id: 7304

88)c; It has not been explicitly stated that love was not a theme in Shakespeare's tragedies. His plays were convoluted and his comedies revolved around the theme of love.

Ask doubt using Question Id: 7305

89)c; It has not been stated in the passage that the breed was unknown or that there were no dog shows before 1889.The sheepherder here refers to the dog.

Ask doubt using Question Id: 7306

90)b; Online shopping 'evokes' the analogy means to say that brick and mortar stores are very similar to online stores. The buying and selling happens over the internet. EBay is not mentioned to be exclusively a B2B corporation.

Ask doubt using Question Id: 7307

Practice Paper-17

Quantitative Aptitude

Number of couples celebrating their 50th wedding anniversary.
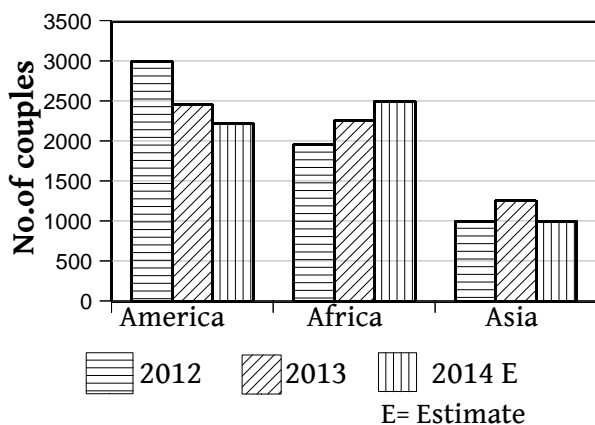
Populations:

Continent	2012	2013	2014
America	300 m	312 m	E 320 m
Africa	100 m	105 m	E 115 m
Asia	12.5 m	13 m	E 14 m

1) In what year did couple marry if they celebrate their 50th wedding anniversary in 2017?
a) 1963 b) 1965 c) 1967 d) 1969 e) 1960

2) In 2012, for every Asian how many Americans were there?
a) 24 b) 26 c) 28 d) 1939 e) 22

3) In total (i.e. In the 3 countries combined), how many more couples celebrated their 50th wedding anniversary in 2012 than are estimated to celebrate in 2014?
a) 4000 b) 750 c) 500 d) 250 e) None

4) In 2012, what fraction of the population of the America had celebrated their 50th wedding anniversary?
a) 1 in 100,000   b) 1 in 75,000
c) 1 in 50,000   d) 1 in 40,000
e) 1 in 25,000

Directions (5 to 7 questions):Read the following question and the conclusions that follow and answer as,

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) If 'n' is an integer, then 'n' is divisible by how many positive integers?
Statement-1: n is the product of a prime and a non – prime positive integer.
Statement-2: n and 20 are each divisible by the same number of positive integers.

6) If the function "√" is defined to be the positive square root, then does $\sqrt{3-2x}$ equal $\sqrt{2x+1}$?
Statement-1: $2x^2 \neq 3x + 1$; **Statement-2:** $4x^2 = 6x - 1$

7) If $a^2 + 2ab + b^2 = 25$, then what is the value of a+b?
Statement-1: $b = 3$;   **Statement-2:** $a = 2$

8) In how many ways in which 6 bride can be selected by 3 grooms?
a) 3^6 b) 6^3 c) 6×3   d) 6×5×4   e) 6×3×5×2×4×1

9) A Test consists of two parts each with 15 questions. If a students needs to choose 8 from first part and 4 from second part. In how many ways can he do that?
a) 6435×1365   b) 6345×1365   c) 6345×1355
d) 6335×1365   e) 6345×1335

10) The probability of 'A' winning a bet is $\frac{1}{5}$ and that of 'B' is $\frac{1}{7}$. What is the probability that only one of them wins the bet?
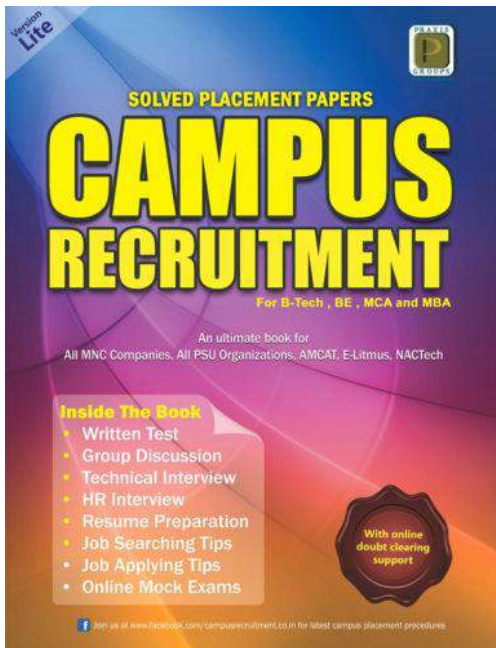a) $\frac{4}{5}$ b) $\frac{1}{5}$ c) $\frac{1}{7}$ d) $\frac{2}{7}$ e) $\frac{6}{7}$

11) A and B go for an interview for two vacancies. The probability for the selection of A is $\frac{1}{4}$ and whereas the probability for the selection of B is $\frac{1}{7}$. What is the probability that at least one of them is selected?
a) $\frac{1}{4}$ b) $\frac{1}{7}$ c) $\frac{5}{14}$ d) $\frac{1}{28}$ e) None

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68)d; 'Itinerant' means to move constantly or to change place frequently. 'Circuitous' means roundabout. 'Habitual' is something that happens by habit.

69)b; 'Whirlpool' exists in water bodies. 'Thundershowers' causes rain. 'Blizzard' is a snow storm.

70)a; Paradox means having opposite meaning. Here they favour 'Austerity' which means simple living. The opposite of simple living is a wealthy lifestyle. Hence the key is option-a.

71)b; When a gerund succeeds a noun, that noun should always be in the possessive case.

72)d; 'Consider' is not followed by 'as'. 'Consider as' has a different meaning. 'To be' and 'like' lead to redundancy of words.

73)c; Here, the agency causing the action must be mentioned. The absence of the agency causes a dangling modifier. Since it is a general sentence without pertaining to any person. The best option is c.

74)b; Since the person in question was not paying any attention, the best suited preposition is 'past'. The word 'away' would have taken 'from'.

75)c; For larger vehicles, the preposition 'on' is used.

76)b; 'Corp' means body.

77)c; 'Amenable' has the root 'Am' which means love/friend.

78)a; 'Tawdry' refers to anything that looks cheap and shabby.

79)b; 'Zenith' means highest point or the peak.

80)c; 'Noxious' means 'harmful'. It has the root 'Nox' meaning harm.

81)c; The blank takes a word that in indicative of time. Hence, Inaugural (first) is the answer.

82)a; The preceding sentence says 'more than' means more than the usual. Hence, Surpassing is the key.

83)b; A group of ships is called a 'Fleet'.

84)a; 'Assembly' and 'composition' mean an arrangement whereas 'invention' means to find something new. Hence the required word is 'modifications'.

85)c; The upgrades and special tests were made so that the flight could be 'safer'.

86)c; The water conservation system developed by Dholavira in 3rd millennium BCE was one of the first and unique systems. The region experienced desert climate. The people of that region used advanced techniques for water conservation.

87)b; The Neanderthals disappeared about 30,000 years ago when the modern humans moved into their territory (Europe). The Neanderthals did not move to Africa and they did not possess sophisticated tools.

88)a; The first few lines of the passage make a mention of Alcatraz as a place of military fortification, military and federal prison. Hence, in the earlier days it was known for its incarceration.

89)b; According to the passage, Antony lost the war because he went to war too early in the season and because he forgot his main siege equipment behind. Famine only added to his woes and was not the primary cause for him losing the war.

90)d; According to the passage, the oldest female larva is not chosen to be the queen bee. The capability of laying eggs also does not entitle a female larva to become the queen bee. The female larva who feeds on the rich mixture of food called the Royal jelly becomes the queen bee.

Practice Paper-18

Read the following chart carefully and answer the questions that follow

Employment trends by country

Previous total jobs by region (in lakh)		Latest Job loss/gain by country (in thousands)	
India	18	India	33
Sri Lanka	14	Sri Lanka	70
America	22	America	17.2
Japan	24	Japan	-36
China	16	China	-27
Europe	23	Europe	-14

Negative = Loss;   Positive = Gain;

1) What is the new total number of jobs for the Europe?

a) 1,117,000   b) 1600000   c) 1960000

d) 2160000   e) None

2) What is the net change in jobs (across all countries)? Be sure to indicate whether the change is negative or positive.

a) −495000   b) +500000   c) −505000

d) +510000   e) -500000

3) Which region now has the 3rd most jobs?

a) Japan   b) Europe   c) America

d) India   e) China

4) What is the new total number of jobs in the country whose job total increased by 12 percent of the total increase in jobs?

a) 1,470,000   b) 2,370,000   c) 1,833,000

d) 2,160,000   e) 2,100,000

Directions (5 to 7 questions):Read the following question and the conclusions that follow and answer as,

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

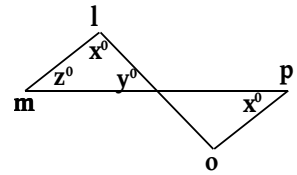**d:** *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) Is $x^2 + 2x$ an integer?

Statement-1: x^3+3x is an integer

Statement-2: $2x$ is an integer

6) In the figure, line lm and op are parallel. What is the value of x?

Statement-1: $y = 45$;

Statement-2: $z = 67.5$

(Asked in Indian Air force)

7) If $a + ab + b = -1$, then what is the value of $a+b$?

Statement-1: $b = -1$;   **Statement-2:** $a = 2$

8) A company showroom consists of 5 red, 4 white and 3 black cars. Three cars are selected at random. Find the number of ways of selecting the car of different colors?

a) $^{12}C_3$ b) $^{12}P_3$ c) 4×3×5

d) $^{60}C_3$ e) $^4C_1+^3C_1+^5C_1$

9) A route consists of 30 buses. In how many ways can a person go from one place to another and return in different bus?   *(Asked in BSNL)*

a) $^{30}C_2$ b) $^{30}P_2$ c) 30×29   d) 30+29   e) None

10) A Die is rolled twice. What is the probability of getting a sum of number is a prime number.

a) $\dfrac{18}{36}$ b) $\dfrac{15}{36}$ c) $\dfrac{20}{36}$ d) $\dfrac{21}{36}$ e) $\dfrac{17}{36}$

11) A vehicle passes two signal lights. The probability that a light is green is 0.5 and probability that a second signal turns green is 0.7. What is the probability that both sets of lights are green?

a) 0.5   b) 0.7   c) 0.35   d) 0.25   e) 0.49

12) A particular problem is been solved by X and Y with probabilities 0.4 and 0.6. What is the probability that at least one of them is solved.
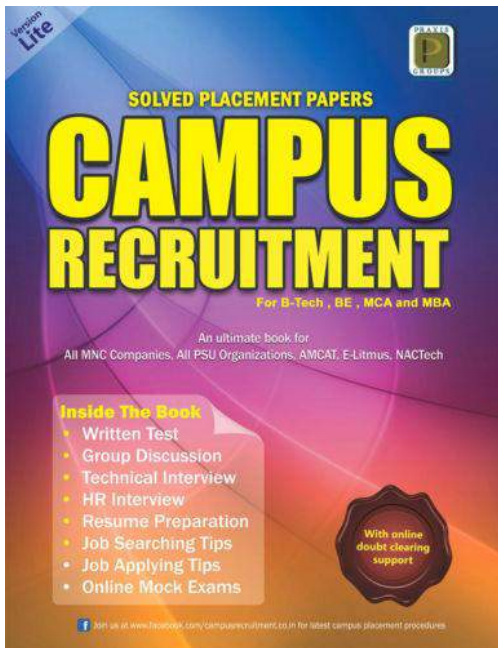
a) 0.40   b) 0.60   c) 0.76   d) 0.16   e) 0.36

13) A man is standing on a bridge which is 110 mt long. He finds that a train crosses the bridge in 30 seconds but himself in 8 seconds. Find the length of the train?

a) 40 m b) 35 m c) 36 m d) 38 m e) 32 m

14) A Motor boat whose speed is 17 km/hr in still water goes 34 km down stream and comes back in a total of 4 hours 30 minutes. The speed of the stream (in km/hr) is

a) $\sqrt{33}$ b) $\sqrt{30}$ c) $\sqrt{27}$ d) $\sqrt{28}$ e) None
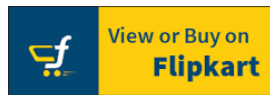
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74)c; The mood of the verb is 'subjunctive'. The subjunctive <u>mood</u> is the <u>verb</u> form used to express a wish, a suggestion, a command, or a condition that is contrary to fact. A verb in the subjunctive mood may have a different form to one with the same <u>subject</u> which is not in the subjunctive mood.
Ask doubt using Question Id: 7561

75)a; Combine simple past with simple present to indicate a general or a universally accepted truth.
Ask doubt using Question Id: 7562

76)c; 'Mega' means 'Huge' and 'mania' is 'madness'. A person who is insanely obsessive about large wealth or power is called a megalomaniac.
Ask doubt using Question Id: 7563

77)d; 'Hearse' is a funeral procession in which the deceased is carried in a coffin to the cemetery.
Ask doubt using Question Id: 7564

78)d; 'Scurrilous' in Latin means 'vulgar'. 'Praise' and 'Eulogy' are synonyms.
Ask doubt using Question Id: 7565

79)a; 'ac' means 'sharp'. The topmost tip of a mountain peak is sharp and is called 'acme
Ask doubt using Question Id: 7566

80)b; 'sen' in Latin means 'old'. 'Senility' is mental degeneration due to old age. 'Amnesia' is disorder where one becomes forgetful. Paraphernalia refers to articles used for a specific activity.
Ask doubt using Question Id: 7567

81)c; It is a known fact that Japanese 'attacked' the Pearl Harbor. Also, the preposition 'on' takes the verb 'attack', most appropriately out of all the other choices.
Ask doubt using Question Id: 7568

82)b; The blank should take a negative word because of the context. 'Infamy' is the apt choice.
Ask doubt using Question Id: 7569

83)a; The theme of the passage revolves around the attack on Pearl Harbor. Hence 'Patriotic' is the correct choice.
Ask doubt using Question Id: 7570

84)c; Since there are similarities between the attack on Pearl Harbor and the September 11, 2001 attack, the correct choice is 'analogies'.
Ask doubt using Question Id: 7571

85)d; Although similarities exist between the two historical attacks in America, the Pearl Harbor incident is little remembered or 'understood'.
Ask doubt using Question Id: 7572

86)c; According to the passage, the mother's voice can produce the same amount of oxytocin as her hug. Hence 'social bonding' is a predominant factor for producing oxytocin. It has not been explicitly stated that oxytocin is unique only to the boys, although the subjects that have been used for research have been boys.
Ask doubt using Question Id: 7573

87)b; According to the passage, even if a person is not vaccinated, he may be protected against meningitis C because of herd immunity. This means that the occurrence of meningitis C in the US must be low. Option 'a' is not stated in the passage. Option C, the cause for meningitis as drug abuse has not been mentioned. Option d, American children may have antibodies against Meningitis C bacteria but not all fatal diseases.
Ask doubt using Question Id: 7574

88)c; 'Accumulation of mucus' does not imply that smokers are more prone to cold and cough. 'Paralysis of cilia' is due to smoking and not only 'paralyses'. The relation between a smoker's cause of death and lung cancer is not explicitly stated in the passage. Option 'c' is apt as per line 3.
Ask doubt using Question Id: 7575

89)b; The extra heat energy' that is trapped because of global warming has a 'destructive effect' according to the last line of the passage. Hence option A is ruled out. The passage does not mention the reduction of global warming or that only the industrial nations are responsible for it. Hence options 'c' and 'd' are ruled out. Option B- the statement is supported in the following line of the passage- 'every single day we pour an additional 90 million tons of global warming pollution into the sky as if it were an open sewer'.
**Ask doubt using Question Id: 7576**

90)c; The hotel business in the US is growing 'from the depths of recession'. Hence option A is incorrect (despite recession). The 'turnover' in investors and the statement about Blackstone Group suggest that the presence of private equity investors in the hotel industry has not been recent. Option 'd' is irrelevant as the passage does not support the trending of hotel sales. Option 'c' is the apt choice as the last statement in the passage suggests that the transaction in the hotel industry is expected to increase.
Ask doubt using Question Id: 7577

Practice Paper-19

Quantitative Aptitude

Recorded Street Crimes.

Legend:
- ▯ Street crimes involving violence
- ▱ Street crimes involving vehicles
- ▤ Other Street crimes
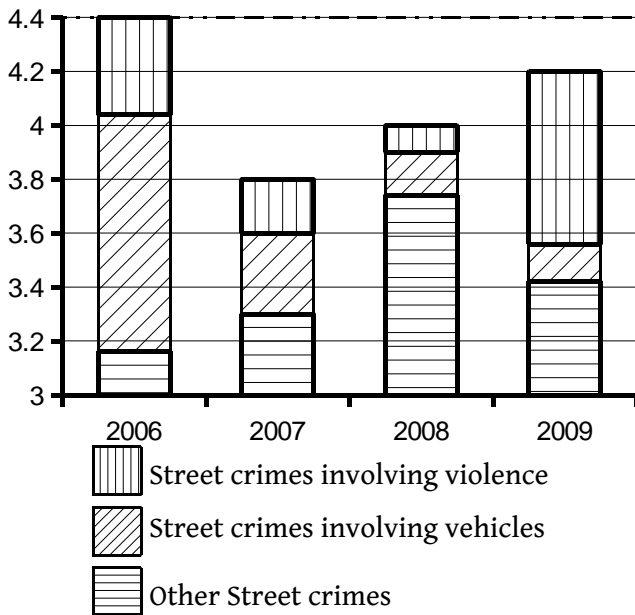
1) How many Street Crimes are recorded for 2009?
a) 11180   b) 5200   c) 4600   d) 4200   e) 7900

2) How many Street Crimes recorded in 2007 did not involve vehicles?
a) 30000   b) 3300   c) 3500   d) 3800   e) 3900

3) In 2006, what percentage of recorded street crimes involved vehicles?
a) 17%   b) 18%   c) 19%   d) 20%   e) 21%

4) Which of the following statement is True?
a) More crimes involving vehicles were recorded in 2009 than in 2008.
b) Fewer crimes involving vehicles were recorded in 2009 than in 2008.
c) The same number of crimes involving vehicles was recorded in 2009 as in 2008
d) $\frac{3}{4}$ more crimes involving vehicles recorded in 2009 than in 2008.
e) None of the above is true.

Directions (5 to 7): Read the following question and the conclusions that follow and answer as,

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer the question.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) If $a \neq 0$ and $a = 2b = \sqrt{2}c$.   Then value of $a - b =$?

Statement-1: $\frac{\sqrt{2}}{2}c = 2\sqrt{2}$

Statement-2: $\sqrt{2c} = 2\sqrt{2}$

6) Value of $\sqrt{\frac{p^2}{q^2}} \cdot \sqrt{\frac{q}{p^2}} + \sqrt{\frac{q^2}{p^2}} \cdot \sqrt{\frac{p^2}{q}}$ is?

Statement-1: $p = 59$;   **Statement-2:** $q = 49$;

7) $a + b = 3$; $a + c = 5$; What is the value of a?

Statement-1: $b = 2$;   **Statement-2:** $c = 4$;

8) How many 10 digit cell numbers can be formed if each number starts with 98 and no digit appears more than once?
a) 8!   b) $10 \times 9 \times 8!$ c) $^{10}C_2 \times 8!$
d) $2 \times 8!$ e) $9 \times 8 \times 8!$

9) In how many different ways can the letters of the word 'RACE CAR' be arranged?   *(Asked in BPCL)*
a) 480   b) 840   c) 7!   d) $\frac{7!}{6!}$ e) 630

10) When a die is rolled what is the probability of getting less than or equal to 3.
a) $\frac{1}{6}$ b) $\frac{1}{3}$ c) $\frac{1}{2}$ d) $\frac{5}{6}$ e) $\frac{2}{3}$

11) One card is randomly selected from a deck of cards. What is the probability that the drawn card is not a face card.
a) $\frac{40}{52}$ b) $\frac{12}{52}$ c) $\frac{13}{52}$ d) $\frac{4}{52}$ e) $\frac{26}{52}$

12) There are 12 boys and 15 girls in a class. If 3 students are selected at random, what is the probability that 1 boy and 2 girls are selected?
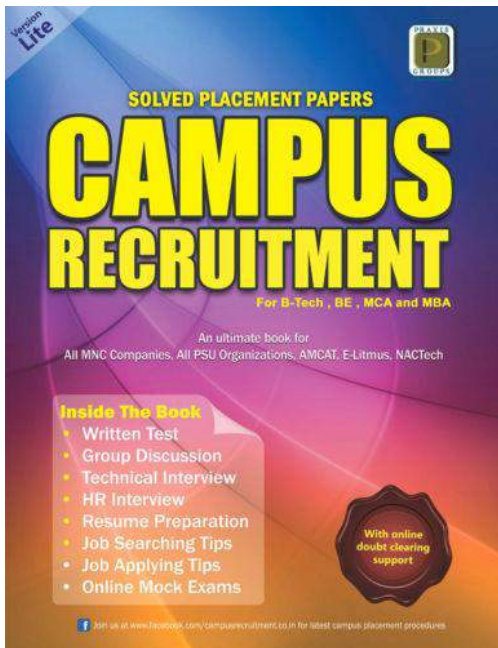a) $\frac{333}{585}$ b) $\frac{252}{585}$ c) $\frac{225}{585}$ d) $\frac{385}{585}$ e)None

13) A train 250 *m* long is running with a speed of 65 *kmph.* In what time will it pass a man who is running at 5 *kmph* in the same direction in which the train is going?
a) 12 *sec*   b) 13 *sec*   c) 14 *sec*   d) 15 *sec*   e) 16 *sec*

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70)d; 'Tranquil' means very calm and peaceful.
71)d; 'Is' is a form of 'be' or the state of being. This sentence is in the simple present tense. The verb tense must be maintained throughout the sentence. Hence the correct phrase is option-d as 'does' is also in the simple present.
72)d; When two singular nouns are preceded by 'Each' or 'Every' and joined by the conjunction 'and', the verb will be singular. This is because, 'each' and 'every' are distributive pronouns that refer to two or more of many things taken one at a time.
73)c; 'Taste' is a verb of perception. Verbs of perception are always followed by adjectives and not by adverbs.
74)b; Some verbs like 'love', 'hate', 'remember', 'forget' are not used in the present continuous tense. Hence option-a is not valid. option-d is in future tense and not relevant here. option-d is grammatically incorrect.
75)d; Gerunds (non-finite verbs having the 'ing' form and acting as subjects or objects) and infinitives (non-finite verbs having 'to' form) can be interchangeably used. Option C is incorrect because 'in the night' refers to a particular night and 'at night' refers to recurrent nights.
76)c; 'Somn' means 'sleep' and 'locu' means 'talk'. 'Somniloquy' means talking in one's sleep.
77)a; 'Gen' means people and 'cide' means killing. 'Genocide' means killing a large number of people.
78)b; 'Ante' means 'before. 'Antediluvian' means a very ancient period.
79)d; 'Trans' means across or beyond. 'Gress' means 'go'. 'Transgress' means go beyond/against law.
80)c; 'Crac' means 'power'. Bureau means office.
81)c; The blank takes a word that is relevant to 'patient information'. The correct choice is c.
82)a; 'Retrieved' means 'recalled'. This word is relevant to the blank.

83)a; The passage suggests that the MT employees can work by 'telecommuting'. The other options are not valid.
84)d; The following sentence hints that the type of storage is 'electronic'.
85)c; 'The electronic storage gives immediate accesses; since the storage is immediately retrievable, it does not matter how far or where the geographical location of the patient is.
86)c; The passage describes that the markers are used to describe a mutation at a genetic locus and not the variation of genetic locus. Last sentence says several other genetic markers determining linkages. Option-d is not correct as the passage says that the distance between linked genes is directly proportional to the crossover of non-sister chromatids. 'Markers can be within genes that code for a noticeable physical characteristic such as leaf color'. Hence option-c is the answer.
87)b; Shakespeare and Chaucer were not contemporaries (before Shakespeare). Chaucer's education was not preliminary as he wrote books that were familiar to many books written by his contemporaries. Geoffrey's father did not work for the king (Deputy to the king's butler). They were rich because of wine and leather businesses.
88)b; Bitcoin is a peer to peer currency and hence it cannot be exchanged for paper currency. Bitcoin is open source and hence is not patented. Block chain is a database and not a computer. Option-b is apt.
89)b; Only in some cases, the identity documents of the victim are stolen. Criminals do not commit identity theft accidentally. Death penalty for criminals is not mentioned.
90)c; President Truman defended his policy in Korea. So he was not against war in Korea. Kremlins were communists and not terrorists who planned to wage world war. The war in Korea had already taken place (I believe that we must try to limit the war to Korea for these vital reasons). Mac Arthur was 'fired' which means his views were opposed by President Truman.

Practice Paper-20

Quantitative Aptitude

Market research findings relating to "AMSA TEA"

Value of total sales of AMSA Tea in rupees thousands				
	2002	**2004**	**2006**	**2008**
Market Y	20	19	18	19
Market X	120	121	115	119

1) What is the value of sales in market Y for the period 2002–2006?

a) 390,000 b) 39000 c) 3900

d) 390 e) Cannot be determined

2) Sales in market X in 2007 were the mean value of the figures for that market in 2006 and 2008. What was the value of sales that year?

a) $116000 b) $117000 c) $118000

d) $119000 e) Cannot tell

3) How many times greater are the figures for market X then the figures for market Y?

a) ×6 b) ×6.25 c) ×6.5

d) ×6.75 e) Cannot tell

4) Sales for market Y were 15% better in 2007 than 2006. What was the volume of sales on that market that year?

a) 19200 b) 19900 c) 20700

d) 21200 e) 20500

Directions (5 to 7): Read the following question and the conclusions that follow and answer as,

a: *If statement-1 alone is sufficient, but statement-2 alone is not sufficient to answer the question.*

b: *If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.*

c: *Both statement-1 and 2 together are sufficient to answer the question, but neither of the statement alone is sufficient to answer the question.*

d: *If both statements alone are sufficient to answer.*

e: *If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.*

5) If is product of 'lm' is equal to 12?

Statement-1: either 'l' equals to 3 or 'm' does not equal 2.

Statement-2: either 'l' equals 6 or 'm' does not equal 4.

6) If $a^3 - 6a^2 + 11a - 6 < 0$.

Statement-1: $1 < a \le 2$; **Statement-2:** $2 \le a < 3$.

7) Is 'a' equal to -1?

Statement-1: $|2a-2|+|2a+2|=4$;

Statement-2: $|3a-2|+|3a+2|=6$.

8) What is the value of $^{101}P_2$?

a) 10101 b) 10100 c) 201 d) $\frac{101}{2}$ e) $\frac{101}{100}$

9) In how many different ways can the letters of the word '*APPLE*' be arranged such that the vowels always come together? *(Asked in TCS)*

a) 5! b) 24 c) 48 d) 2!×3! e) None

10) Two tetrahedron with red and green faces numbered 1 to 4 are thrown a single time. What is the probability that the sum of faces is odd.

a) $\frac{1}{2}$ b) $\frac{1}{16}$ c) $\frac{4}{16}$ d) $\frac{12}{16}$ e) None

11) Two unbiased coins are tossed at the same time. What is the probability of obtaining no heads?

a) $\frac{1}{4}$ b) $\frac{2}{4}$ c) $\frac{3}{4}$ d) $\frac{1}{3}$ e) $\frac{2}{3}$

12) Each of 15 balls marked with a different number from 1 to 15. One ball is taken at random and then replaced. A second ball is then taken at random. Determine the probability that both balls taken are marked with the number 5?

a) $\frac{1}{20}$ b) $\frac{1}{225}$ c) $\frac{^5C_2}{^{15}C_2}$ d) $\frac{1}{^{15}C_2}$ e) None
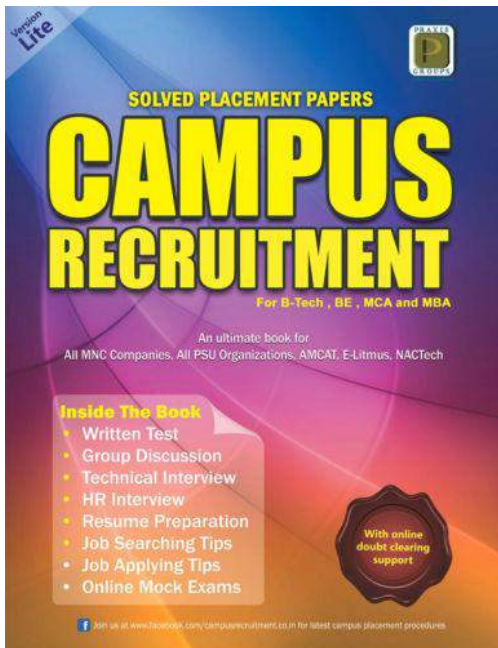
13) Two trains 143 meters and 157 meters in length are running towards each other on parallel lines, one at the rate of 42 *kmph* and another at 48 *kmph*. In what time will they will cross each other from the moment they meet?

a) 10 *sec* b) 11 *sec* c) 12 *sec* d) 13 *sec* e) 14 *sec*

14) A man can row at $8\frac{1}{4}$ *km/hr* in still water and finds that it takes him thrice as much time to row up than as to row down the same distance in the river. The speed of the current is;

a) $\frac{33}{8} km/hr$ b) $\frac{31}{8} km/hr$ c) $\frac{29}{8} km/hr$

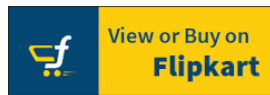d) $\frac{27}{8} km/hr$ e) $\frac{25}{8} km/hr$ *(Asked in HAL)*

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88)a; According to the passage, the French literature's popularity was not stated to be because of its simplicity. It has not been ascertained if the French authors resided in England, although their influence spread beyond the French borders. Latin was the predecessor of French and presence of Latin as a dominant language has not been mentioned. The correct key is option-a.

Ask doubt using Question Id: 7665

89)c; According to the passage, CPR is used to revive blood circulation and restore breathing as well as brain functioning. Hence, option-a is not the key. CPR is not the same as external ventilation according to the passage. Last sentence states that Chest compression is involved in the CPR. Hence the key is option-c.

Ask doubt using Question Id: 7666

90)d; According to the passage, grasshoppers produce sounds to attract females and also to protect territories. Hence option-a is wrong. According to the last line, the sound is made in one of the two ways. Hence option-b is incorrect. option-c is an incorrect inference. option-d is the key as the grasshoppers want to protect their territories.

Ask doubt using Question Id: 7667

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Quantitative Aptitude Formulas

Number Systems

1) Test of divisibility

a) Divisible by 2: If units place is either '0' or either divisible by 2.

b) Divisible by 3: If sum of digits of a number is divisible by 3.

c) Divisible by 4: If last two digits are divisible by 4.

d) Divisible by 5: If last digit is either 0 or 5.

e) Divisible by 6: If number is divisible by 2 and 3.

2) LCM and HCF of factors

a) $LCM = \dfrac{LCM \, of \, numerator}{HCF \, of \, denominator}$

b) $HCF = \dfrac{HCF \, of \, numerator}{LCM \, of \, denominator}$

3) Product of two numbers = Their HCF × LCM

4) Algebraic identities:

   a) $(a + b)^2 = a^2 + 2ab + b^2$

   b) $(a - b)^2 = a^2 - 2ab + b^2$

   c) $(a + b)^2 + (a - b)^2 = 2(a^2 + b^2)$

   d) $a^2 - b^2 = (a + b)(a - b)$

   e) $(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$

   f) $(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

   g) $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

   h) $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

5) Summation of series

a) Sum of natural numbers from 1 to $n = \dfrac{n(n+1)}{2}$

b) Sum of squares of first n natural numbers = $\dfrac{n(n+1)(2n+1)}{6}$

c) Sum of cubes of first n natural numbers = $\left(\dfrac{n(n+1)}{2}\right)^2$

d) Sum of even numbers from 1 to n.

e.g. Sum of even numbers from 1 to 80 is
40(40+1) = 1640;
Here, 40 even numbers are there from 1 to 80.

e) Sum of odd numbers from 1 to n

e.g. Sum of odd numbers from 1 to 60 = $(30)^2$ = 900.
Here, 30 odd numbers are present from 1 to 60.

6) a) odd × odd = odd   b) odd × even = even

   c) even × even = even

7) Factorial: a) $m! = m \times (m - 1) \times (m - 2) \times \ldots\ldots \times 1$

     e.g. $8! = 8 \times 7 \times 6 ----- \times 1$

b) $0! = 1$

8) Let, $x = \sqrt{y + \sqrt{y + \sqrt{y + \ldots}}}$ then, $x = \sqrt{y + x}$

9) Result on division:
Dividend = (Quotient × Divisor) + Remainder

Averages

1) Average of n numbers,

$Average = \dfrac{Sum \, of \ n \, numbers}{n}$

e.g. Average of 2, 4, 6, 8 is

$Average = \dfrac{2+4+6+8}{4} = \dfrac{20}{4} = 5$

2) If there are two types of items say A & B. 'A' has m sub items and B has n sub items, then the average of A and B is, $\dfrac{(Am + Bn)}{(m + n)}$.

3) The average age of N persons is x years,

a) If m persons joins, the average age increased by y years, then the average age of new corners is,

$x + \left(1 + \dfrac{N}{m}\right)y$

b) If m persons left, then average age decreased by y years then the average age of outgoing persons is, $x - \left(1 + \dfrac{N}{m}\right)y$

4) Average speed = $\dfrac{Total \, Distance}{Total \, Time}$

5) If the average of n numbers is m. Then summation of n number is, $n \times m$.

E.g. Average of 5 numbers is 9, then summation of 5 numbers is, 9×5=45.

Ratio, Proportion & Variation

1) The ratio of two quantities a and b in same units is, $\dfrac{a}{b}$ or $a : b$.

2) Proportion:
If $a : b = c : d$, we write $a : b :: c : d$,
then a, b, c, d are in proportion.
Here, Extremes = a & d;   Mean terms = b & c

3) a) Mean proportional between a and b is $\sqrt{ab}$

   b) Fourth proportional is d to a, b, c.

   c) Third proportional is c to a & b.

4) Compounded ratio:
Let, three ratios are $(a{:}b)$, $(c{:}d)$, $(e{:}f)$, then compounded ratio is, $(ace : bdf)$

5) Duplicate ratios:
Let, the ratio be $(a : b)$

a) Duplicate ratio = $a^2 : b^2$

b) Sub – duplicate ratio = $\sqrt{a} : \sqrt{b}$

c) Triplicate ratio = $a^3 : b^3$

d) Sub – triplicate ratio = $a^{1/3} : b^{1/3}$

---

b) Area of triangle:

vertices – $A(x_1, y_1)$, $B(x_2, y_2)$, $C(x_3, y_3)$

$$= \begin{vmatrix} x_1 & y_1 & 1 \\ x_2 & y_2 & 1 \\ x_3 & y_3 & 1 \end{vmatrix}$$

c) If three points P, Q, R are collinear.

   Then Area $(\Delta PQR) = 0$

d) Section formula: If $P(x,y)$ divides the line $A(x_1 y_1)$ & $B(x_2 y_2)$ in the ratio $m : n$, then

$$x = \frac{mx_2 + nx_1}{m+n} \quad y = \frac{my_2 + ny_1}{m+n}$$

e) Let, the vertices of triangle be, (x_1, y_1) (x_2, y_2) (x_3, y_3); Coordinates of centroid =

$$\left(\frac{x_1 + x_2 + x_3}{3}, \frac{y_1 + y_2 + y_3}{3} \right)$$

f) Straight line:

a) Equation of straight line, $y = mx + c$

m = slope

b) If line passes through point $A(x_1, y_1)$ and $B(x_2, y_2)$

then, $m = \dfrac{y_2 - y_1}{x_2 - x_1}$ $(x_2 \neq x_1)$

c) Equation of straight line passing through two points (x_1, y_1) and (x_2, y_2) is

$$y - y_1 = \left(\frac{y_2 - y_1}{x_2 - x_1} \right)(x - x_1)$$

d) Area of triangle formed by the line $ax + by + c = 0$

with coordinate axes is, $= \dfrac{c^2}{2|ab|}$

Applying Jobs through Companies Web site

Every company gives priority to those candidates who has applied jobs through their company's portal. Moreover, the uploaded resume resides in company's database forever. So when any future opportunities arises they will be give the first intimation. So its very important that you register in as many companies as you can and habituate yourself to apply jobs using the companies portals.

Apply direct at the company web site, even if you find the listing elsewhere. Your application will go directly into the company's applicant tracking system and you'll be able to monitor its progress.

Below are the steps for applying jobs in the MNC, by taking example of Infosys.

Step 1: On the home page of the websites, observe the link called "Careers" or "Job opening" or any thing which is related to job. In the below example notice the "Careers" link at the top right corner. (Represented using arrow mark).
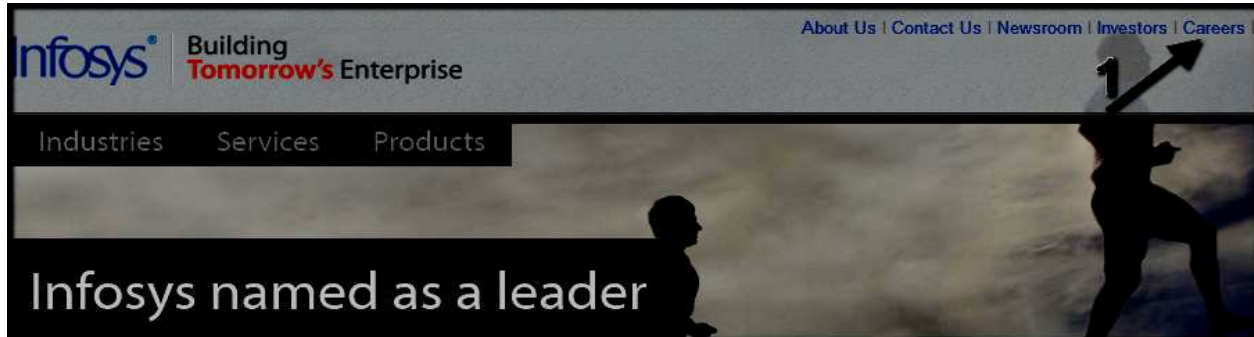
Step 2: Upon clicking the "Careers", you will be taken to the career page, as shown below. There you find the links saying Job Opportunities, search jobs (or) apply Job, as below.

Step 3: After clicking on Job Opportunities, You can notice the following screen. If you are a new member, then first you need to register by providing your academic, personal information.

After successful registration, you can login into the site to search and apply for the relevant jobs.

1. If you are a fresher click on the "login" under "freshers" or

2. If you are an experienced professional use "Login" at number (2).

3. You can also find and apply jobs in the countries apart from India using the above links given at number (3).

Applying Govt/PSU jobs in Naukri.com

a. Login to your 'www.naukri.com' account and click on the link shown below in the screen.
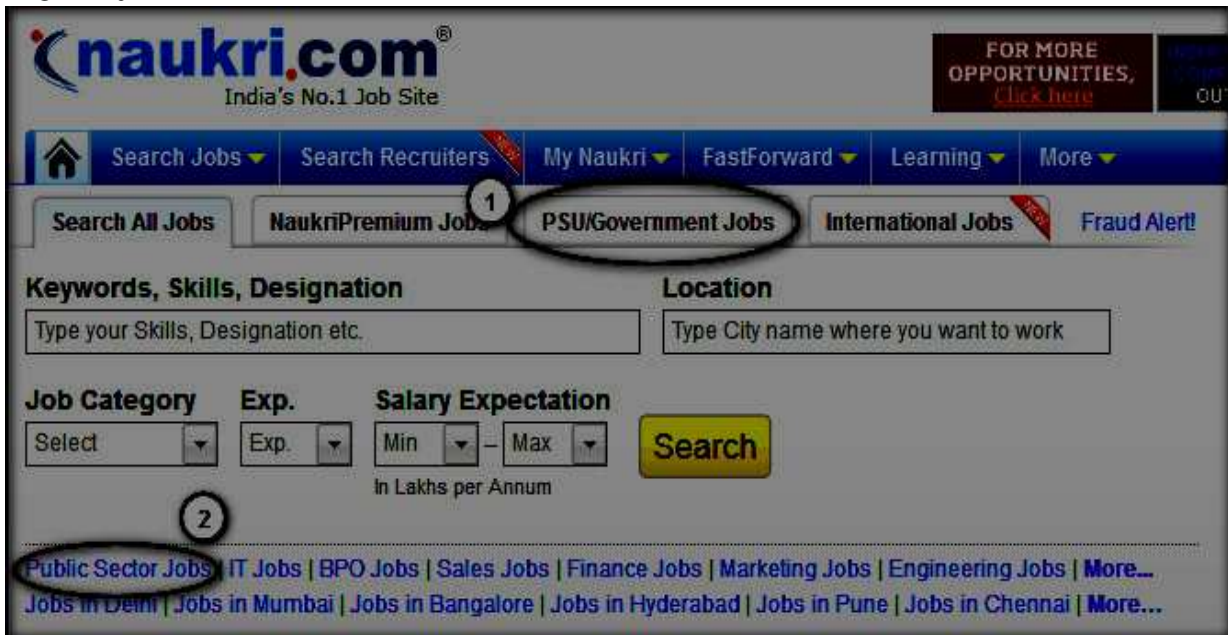
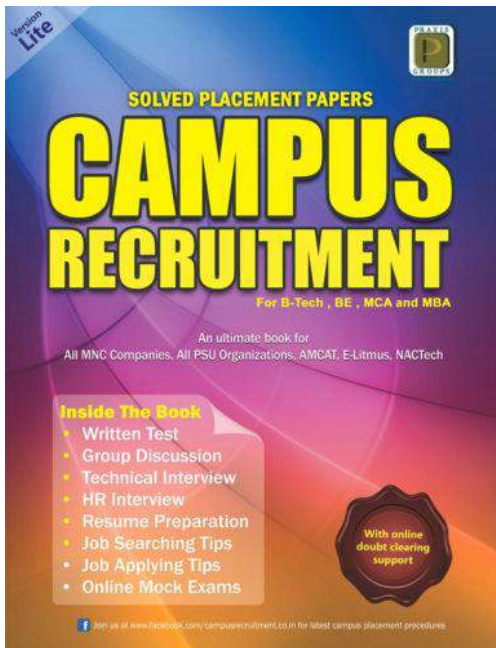**b.** Then the following screen showing the list of available jobs is displayed.

1. Click on the Job to read the job description and other details to apply.

2. You can select the category of jobs according to your preference. For example, Defense/Government or Education or Healthcare or Oil & Gas/ Power/ Infrastructure/ Energy or Banking etc.

Note: You can also search for government jobs in some other job sites like www.monster.com or www.timesjobs.com.

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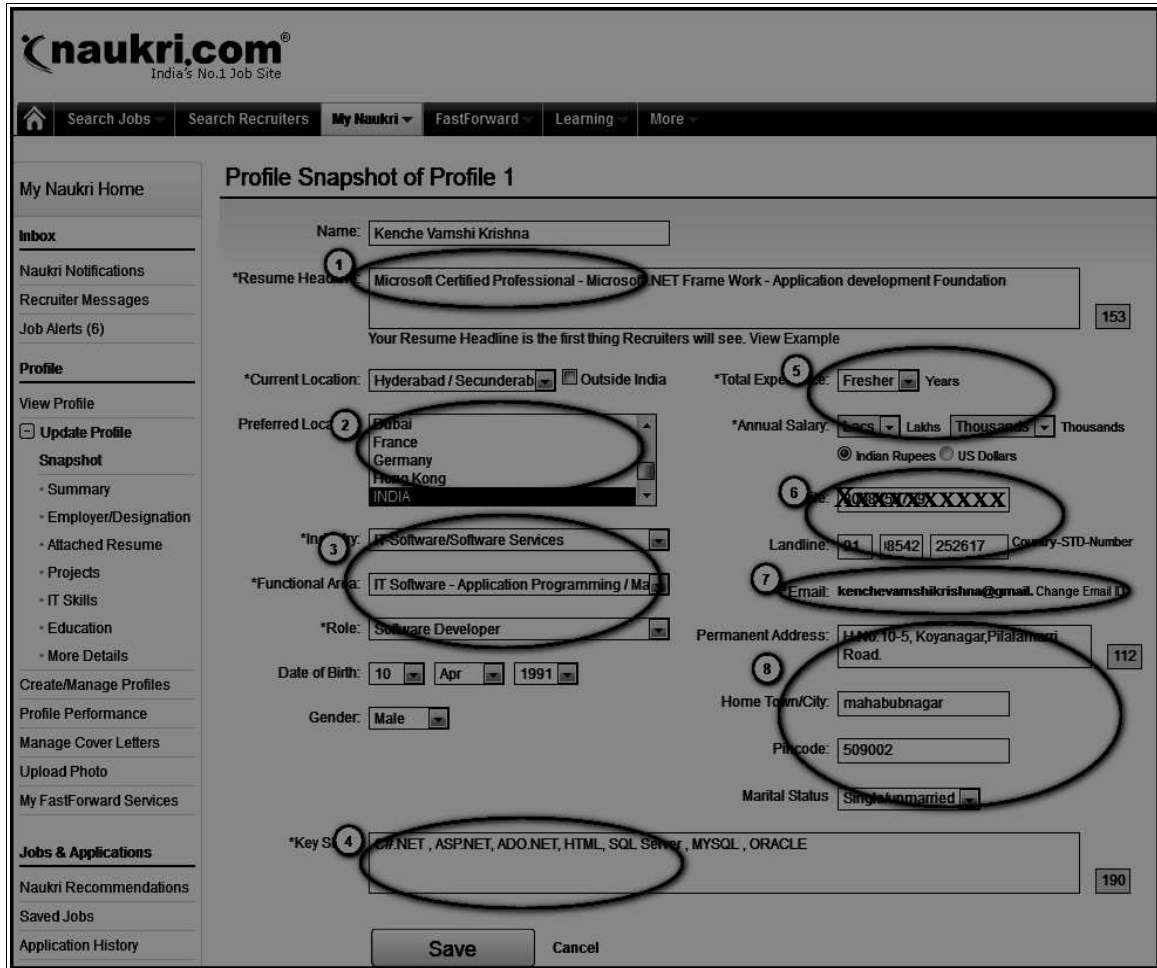
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Profile Snapshot:

Click on 'My Naukri'. And then click on 'Profile Snapshot'.
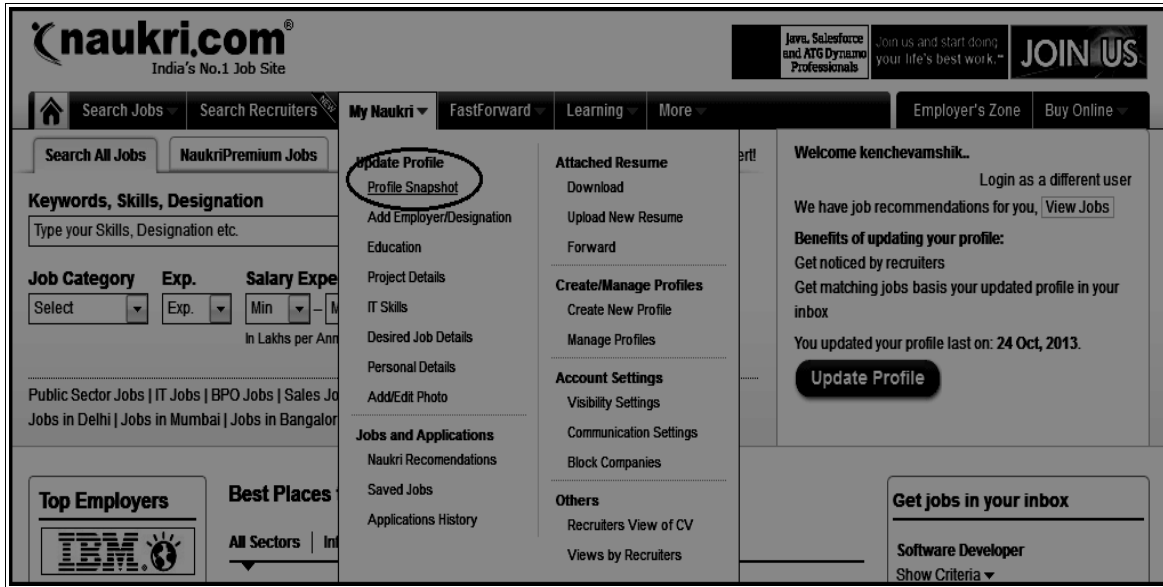
After clicking on the 'Profile Snapshot', the following screen shot will be displayed.

Click on 'Click to upload Video Resume' button to upload video resume. It supports Maximum file upload size of 50 MB and Max video length of 2 minutes. You can upload video in ".wmv, .mov, .avi, etc." formats.

How to search for jobs in monster.com

a. Login to your Monster.com account.

b. Click on 'Home'. The Following page will be displayed.

1. Key Word: Enter your key technical skills.

2. Esp. (yrs.): Enter the duration of your work experience.

3. Location: If you want to search in a particular location then enter that location. Otherwise leave it empty. Then click on 'Find Better'. For best results, search by changing the key skills but make sure you aware of those key skills.

1. Personal Details: Your name, address, telephone number(s) and email address.

3. Education and Training: A list of your formal academic qualifications, certifications and any other relevant training you have completed in reverse chronological order, putting the most recent education first. Write achievements instead of responsibilities. Begin accomplishment statements with powerful action verbs.

4. Certifications are done to learn technical skills which are in popular demand. List the certifications done under separate heading. List the full name of the certification, the issuing organization or institution and its location and the date issued.

2. Career Summary: Replace your "Objective" with a "Career Summary". A Career Summary is designed to give a brief overview of who you are and what you do. Most Objectives sound similar: Seeking a challenging, interesting position /maximizing the bottom line with my contribution/ To be the best in industry etc. Develop a summary that highlights your technical skills and how you have used them before. Writing long objectives diverts the attention of a hiring manager from the real purpose. Do not write any irrelevant or negative information (Gap in your education, backlogs, low percentage, employment gaps, change of career, personal experiences, etc.).

5. Skills: This is the place to put important and/or interesting information that does not fit anywhere else. With the advancement of technology, it is increasingly important to include a section on computer skills. This should include your knowledge of computer programs, hardware, software, database knowledge, and/or Internet functions. If you have any other notable skills, such as foreign languages, artistic accomplishments (like passing diploma in music/arts), or writing skills, include these here.

6. Project Details: Write only the most important information in this section. Following details would be sufficient.
• Project Name.
• Short description of project (Not more than 5 to 6 lines).
• Your role in project (This is very important).
• Technologies used in project.
• What you have learned or achieved during the project.
• Any recognition to project like awards, certificates, letter of appreciation, honors conferred, etc.
Don't write everything about your projects .E.g. How you started, who were the members of your team, how many lines of code you wrote etc. That will make the resume very lengthy.

7. References: Simply indicate that references are "available upon request" in a paper version of your resume. You should know at least 3 people who can serve as your references. Ask in advance for permission to use them as references. Use faculty and employers as references, not personal acquaintances. Do not include their names, address, or phone numbers on the resume. You may send a separate sheet with this information along with your resume, or wait until the employer requests references.

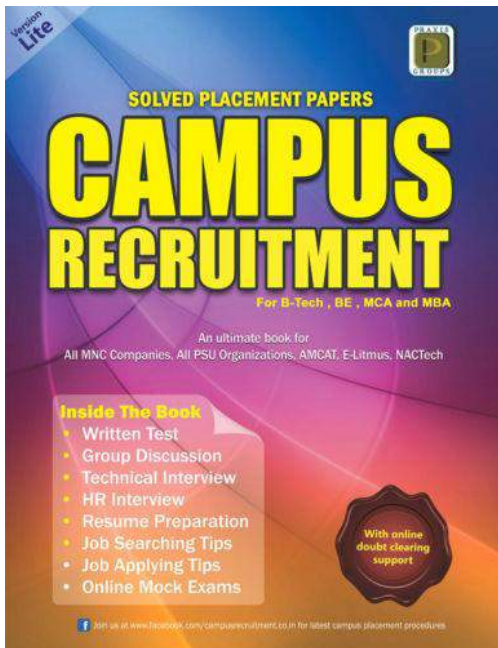For more resume samples/ templates go to the link '*www.CampusRecruitment.co.in*'.

36) What is the finding scenario of NHDP?

37) What is the funding difference between PMGSY and Bharath Nirman Projects?

38) What are the instruments used during reconnaissance survey?

39) What is the maximum width of a vehicle used on Indian Roads as per IRC:**3**?

40) What is the value of legal single axle load limit in India?

41) Define single axle load as per IRC standards?

42) State the difference between control line and building line?

43) What is the maximum value of super-elevation adopted in India for plain and rolling terrain?

44) What do you understand by equilibrium super-elevation?

45) What is the criterion used for design of sag and summit curves?

46) On what roads the speed breakers are permitted construct?

47) State the pavement design criteria as per Mechanistic-Empirical Method?

48) How many, number of zones the Indian continent is divided for design of Indian rigid pavement?

49) How many, number of conflicts can be reduced by adopting two-lane two-way road to two-lane one-way road?

50) What is a commercial vehicle and tell its minimum axle-load?

51) What extent of ballast cushion is maintained at inner rail of a railway track?

52) State the standard dimensions of BG, MG and NG that are adopted in India?

53) What is the value of conning of wheels provided in case of train wheel?

54) What is the difference between train and locomotive?

55) What is the minimum length of a platform for all type of gauges?

56) What is the minimum width of passenger platform for all type of gauges?

57) What is the minimum width of goods platform for all type of gauges?

58) Name the classification of routes in Indian Railways?

59) What numerical and alphabets are indicated as Brand Mark Rolled on FF Rail Sections?

60) What is the maximum value of creep permitted on BG section of Indian Railways?

61) What is the difference between advanced starter signal and starter signal in Railways?

62) What is meant by control airspace and say their types adopted in airport engineering?

63) What do you understand by ILS in airport engineering?

64) What do you understand by precision approach runway?

65) What is the effect of CWC on light aircraft operation?

66) What are the ideal conditions assumed for design of length of a runway?

67) Name the Declared Distances Associated with Runway?

68) State a few runway markings and state the need of threshold markings?

69) State how the runways are designated with reference to their orientation?

70) Can you define VASI and PAPI System of airport lighting?

71) What are the major differences in the input values that are considered for design of runway and highway pavements?

Surveying

72) What are the instruments can be used for establishing perpendicular offsets with reference to a chain line?

73) What are the limitations of chain surveying?

74) What is declination and dip in compass surveying?

75) What do you understand by Normal Tension in chain surveying?

76) Name the different type of chains used in chain surveying with reference to its length and number of links?

77) How many links will be there in a metric chain?

78) What is meant by **3**-**4**-**5** technique, used in chain surveying?

79) When the optical square is used?

80) What is the least count that can be measuring by using ordinary leveling staff?

81) What is the least count that can be measuring by using bar coded leveling staff?

82) What is meant by local attraction in compass surveying?

83) State a few differences between surveyor's compass and prismatic compass?

84) State the factors affecting declination of a magnetic needle used in compass surveying?

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1. Tell us about yourself

Good Answer: I am pursuing B.Tech in computer science. The three best attributes that describe me are passionate, professional and perseverant. I have a great liking for my subject and my approach is logical rather than theoretical. I try to analyze various situations where my subjects can be applied. This is a testimonial to the fact that I have won several awards in technical quiz competitions. I am a professional when it comes to work. I have led the project team at my college. I was able to steer my team in the right direction. Our project won many accolades from the faculty. My friends appreciate my leadership abilities. I was the class representative for three consecutive years.

Body Language Observation:

- Student is maintaining active and enthusiastic face expression.
- Good dressing sense.
- Looking very confident.
- Prepare well for the interview. And answer with the relevant details for the questions asked by interviewer.

Bad Answer: My name is Krishna. I am 22 years of age. I have studied B.Tech from MVIT. Hm, I completed inter in the year 2008 with 75%. I passed SSC in 2006 with 88%. I am a native of Amalapuram. My father is a retired bank employee. My mother is a teacher. Um, My brothers are pursuing B.tech in Hyderabad. I love sports. Ah, I won the best batsman award at college. I am a great team player and a good person. (Irrelevant details).

Body Language Observation:

- Facial expressions are not good.
- Avoid using verbal tics like *hm, um, ah* etc while answering.
- Bad dressing sense and arms are folded.
- Explaining the answer with irrelevant details.

Group Discussion

INTRODUCTION

Group Discussion is a process of selection rather than elimination. Group Discussion refers to the process where by a topic or a situation is presented to a group of candidates. It is a systematic exchange of ideas and information among a group of people. In a Group Discussion, a topic is given and each member is given about 10-15 minutes to think about the given topic. The members are then allowed to present their views and opinions to the other candidates in the group. The Group Discussion facilitates objective thinking, systematic presentation of ideas, interacting abilities, problem resolution, leadership abilities, ability to take initiatives, ability to work within a team, flexibility and assertiveness skills.

Why Group Discussion is a part of the selection process?

The primary reason for conducting the Group Discussion is to evaluate how effectively a candidate would perform as a member of a team. When more than one person is involved in problem solving, ideas have to be brainstormed, collaborated and a conclusion should be reached such that the organizational goals are met along with creating a win win situation for every member of the team. Thus apart from participation and contribution, team behavior and attitude of a person are the traits that a company would be evaluating in the Group Discussion.

The written test evaluates aptitude in Verbal Ability, Quantitative Ability and Reasoning Ability; These areas to judge the the analytical, logical, numerical and language abilities but they do not test the personality traits or group behavior of the individual. The ability to deal with people, individually or in a group, is vital for success in the corporate world. Therefore a group discussion is included in the selection process. A group discussion allows the selectors to judge the individual's performance and behavior in a group. Different aspects of group discussion include communication skills- both verbal and non-verbal, Ability to make decisions and co-operate with people.

TYPES OF GROUP DISCUSSIONS

The classification is based on the type of the topics that are chosen for group discussion. The topics could be:

1. Current Affairs-Topics related to current news items related to business, technology, politics, education and social activities etc.

2. Argumentative Issues- A topic is given to the candidates that they have to analyze and critically present their views on the topic.

3. Factual topics – The topics are which may directly or indirectly affect a person in his day to day life.

- Women's reservation bill
- Lokpal bill
- Status of women in India
- Global warming.

4. Controversial topics – Topics in which candidates can take a stance – for or against the given topic thereby leading to a bit of disagreement among the participating members of the group.

For example,

- We are becoming too dependent on computers.
- Video games contribute to youth violence.
- Reservation system should be removed.

5. Abstract subjects – These types of topics generally include imaginary or hypothetical topics. For example,

- What would happen if the Earth would stop rotating?
- What would happen if you were given a chance to rule the country?

6. Case study – instead of a topic a case study will be given in this category. They need to resolve the situation. The objective the case study is to think about the situation from different angles. Generally real life situations are given in case study. A complex and problematic situation and information about that situation is given to the group.

15. You can file an RTI (Right to Information) against an organization and the RTI query has to be answered by law. The link to file an RTI is *http://rti.india.gov.in/rti_direct_complaint_lodging.php*

Use the above information to investigate the following:

a) If the company is mid-sized to a large one, the website must be registered with the company name and company address. If it is registered in a person's name then it invokes some suspicion. (This is however, not always true). **Example:** If Company XYZ Pvt Ltd. is owned by Mr. Hari then the Organization name would be known as "XYZ Pvt Ltd"

b) If the email ID of the contact personnel is a personal mail ID and not a company ID then it is a cause of concern.

Example: If Company XYZ Pvt Ltd has their website as xyz.com then their email id should be something like admin@xyz.com or contact_us@xyz.com.

Look up for date on which the website was created. Read the company's financial information. If the company's website is young say, just a year old, but the company boasts of heavy profits or investments, be sure that the information is fake.

16) The status of only LLP (Limited Liability Partnership), Private Limited Company and Public Limited Company Status can be obtained using MCA Website. Status of entities registered as Sole Proprietorship (having Shop Act Registration) or Partnership Firm cannot be obtained through MCA Website.