

Version
Lite



SOLVED PAPERS

CAMPUS RECRUITMENT

Inside The Book

- Written Test
- Group Discussion
- Technical Interview
- HR Interview
- Resume Preparation
- Job Searching Tips
- Job Applying Tips
- Online Mock Exams

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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 is 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 tests 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 m² in the area of Rs.3 per meter.

- a) 2614 b) 2714 c) 2914 d) 2664 e) None

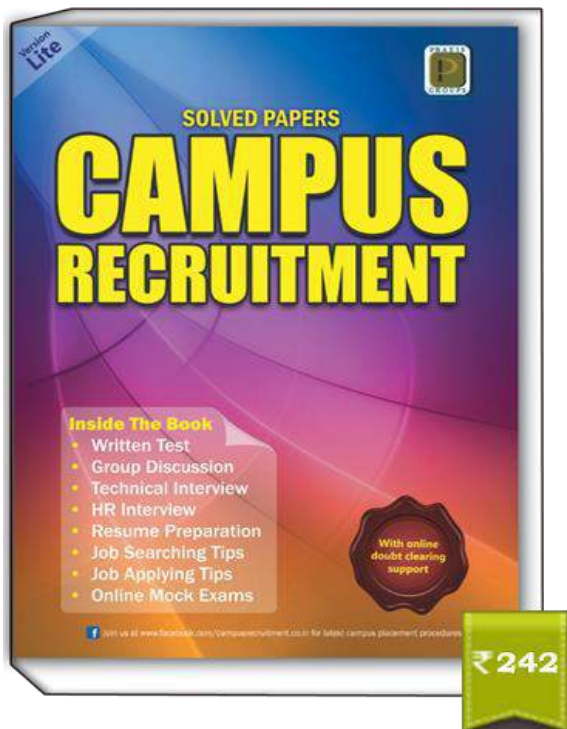
Directions (14 to 17): Following table gives the production of computers of six companies A, B, C, D, E and F over the years.

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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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

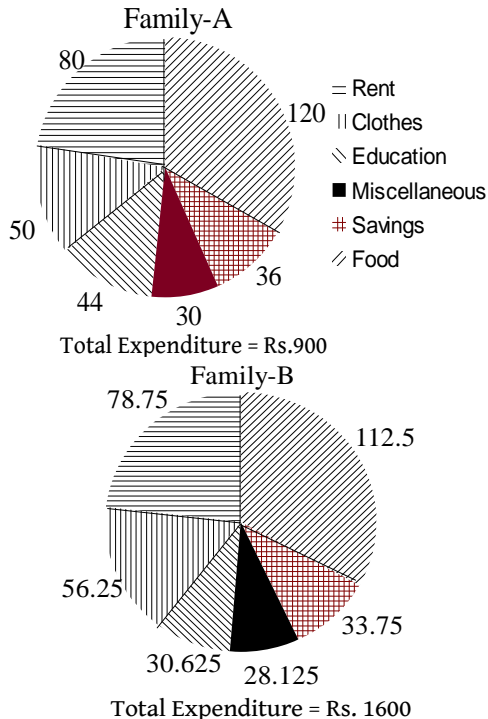
86)a; Ask doubt using Question Id: 5972

Practice Paper-2

Quantitative Aptitude

Refer the figure given below to answer the following questions:

Expenditure of two families in rupees.



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

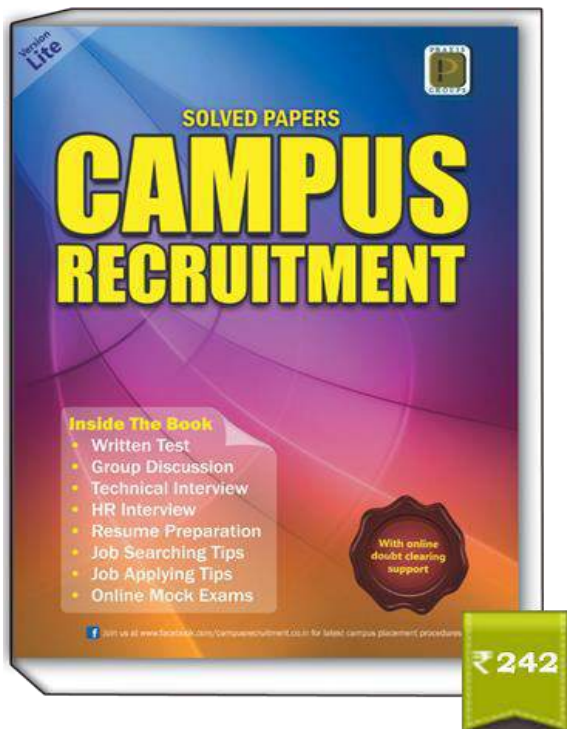
12) The average age of a man & his son is 48 years. The ratio of their ages is 11 : 15. What will be the ratio of their ages after 6 years?

- 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) 145° b) 150° c) 155° d) 160° e) 140°

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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

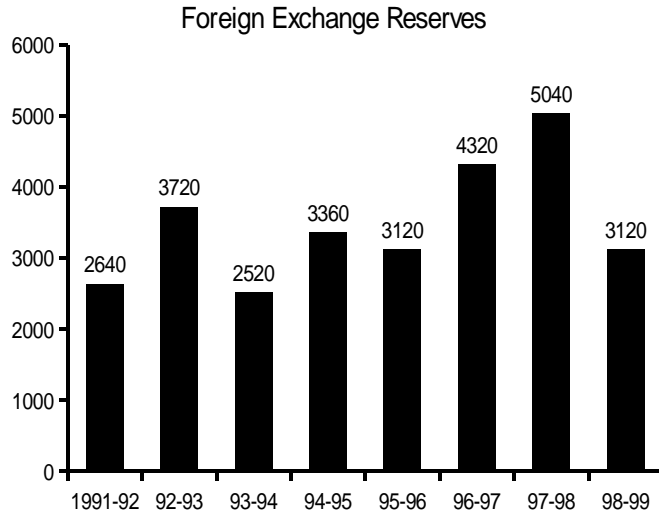
85)a; The author is of the clear opinion that even thoughts related to religion also can be a trash.

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.



- 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
- 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%
- 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%
- 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
- 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) $\frac{5!}{3!}$ e) 5×3
- Calculate the number of different words that can be obtained by rearranging the letters of the word TRUST.
a) 5! b) 4! c) $\frac{5!}{2!}$ 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) $\frac{13}{52}$ b) $\frac{{}^{13}C_2}{{}^{52}C_2}$ c) $\frac{(13!)}{(52!)}$ d) $\frac{13^2}{52^2}$ e) $\frac{13 \times 2}{15 \times 2}$

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 $54\frac{1}{3}$ 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) 120° b) 90° c) 110° d) 130° e) 100°

11) $\frac{2}{3} : \frac{5}{6} :: \frac{8}{7} : x$; Find the value of x?

- a) $\frac{17}{4}$ b) $\frac{10}{7}$ c) $\frac{5}{3}$ d) $\frac{13}{14}$ e) $\frac{15}{14}$

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

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

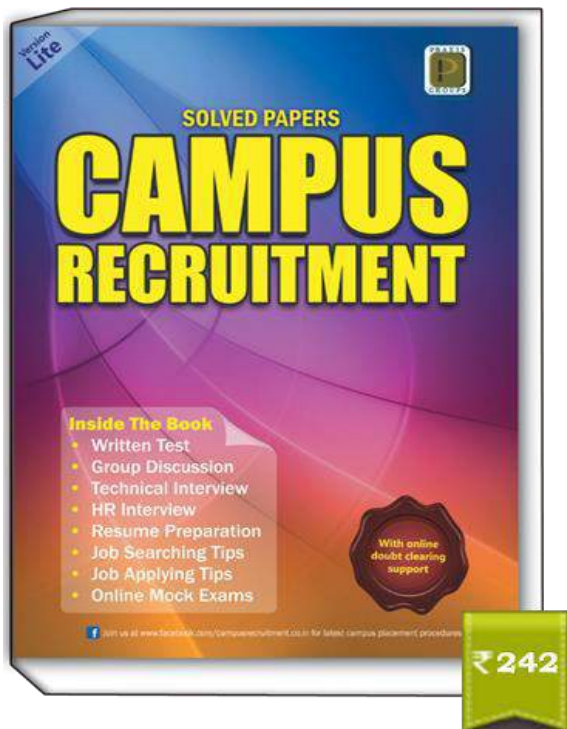
b: If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.

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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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

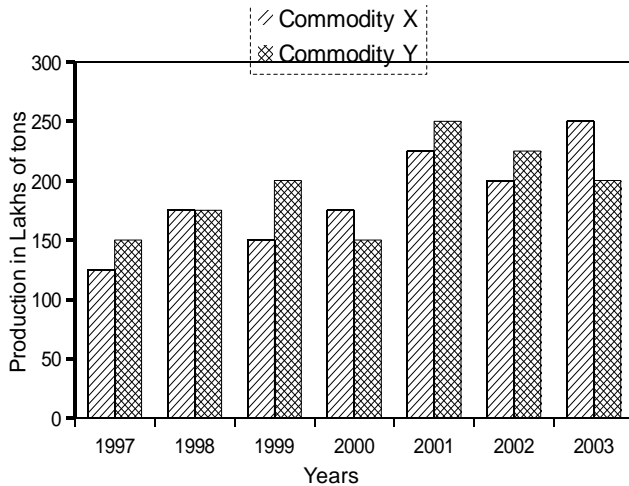
82 to 85 – Groups of animals are called with different collective nouns- We call **a shoal** of fish; **a hive** of bees; **a pride** of lions and **a muster** of peacocks.

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) $4 \binom{10}{C_5}$ c) $4 \binom{10}{P_5}$ d) $\frac{5!}{5^4}$ 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) $\frac{13!}{2}$ 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° b) 47.5° c) 45° d) 50° e) 52.5°

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) 6m b) $6\frac{1}{2}m$ c) 7m d) $7\frac{1}{2}m$ e) $5\frac{1}{2}m$

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.

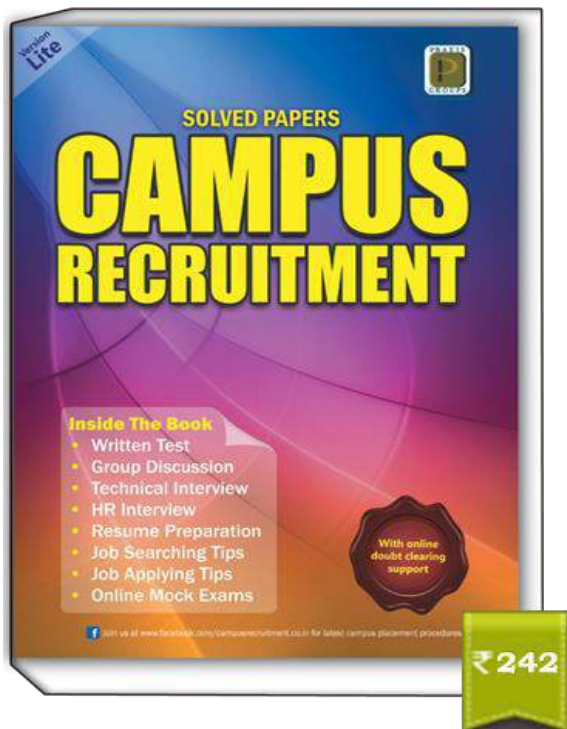
b: If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.

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.

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

Ask doubt using Question Id: 6222

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

Ask doubt using Question Id: 6223

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

Ask doubt using Question Id: 6224

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.

Ask doubt using Question Id: 6225

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

Ask doubt using Question Id: 6226

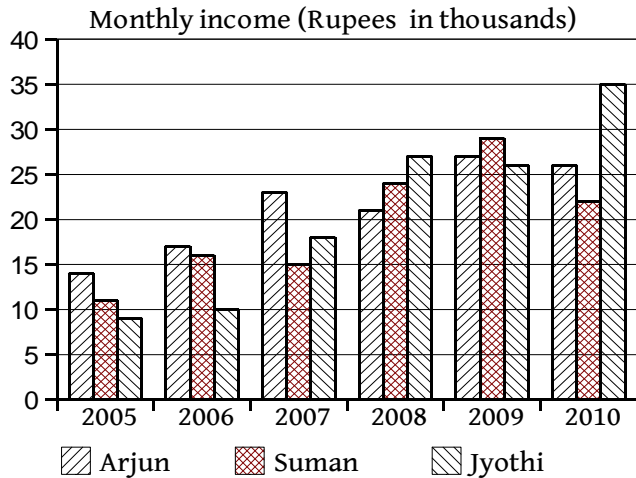
76 to 85: This cloze passage is about the socio-economic problems of diabetes – the expression 'loss of productivity' indicates it must be **economic** (76) burden only. The reasons for the diabetes are sedentary jobs, changing diet and the **spread** (77) of electronic entertainment. Broadcast is used 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.

Ask doubt using Question Id: 6227

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) 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) $\frac{4!}{4^4}$ 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) $\frac{20.19}{2}$ 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) $\frac{4}{9}$ b) $\frac{5}{9}$ c) $\frac{5}{10}$ d) $\frac{5!}{10!}$ e) $\frac{2}{10}$

8) Which of the statements is true for 31^{11} & 17^{14} ?

- a) 31^{11} is greater b) 31^{11} is lesser
c) $31^{11} \leq 17^{14}$ d) $31^{11} \geq 17^{14}$ 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° b) 48° c) 50° d) 40° e) 55°

11) Two equal glasses are respectively $\frac{1}{3}$ & $\frac{1}{4}$

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) $57\frac{3}{4}\%$ 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.

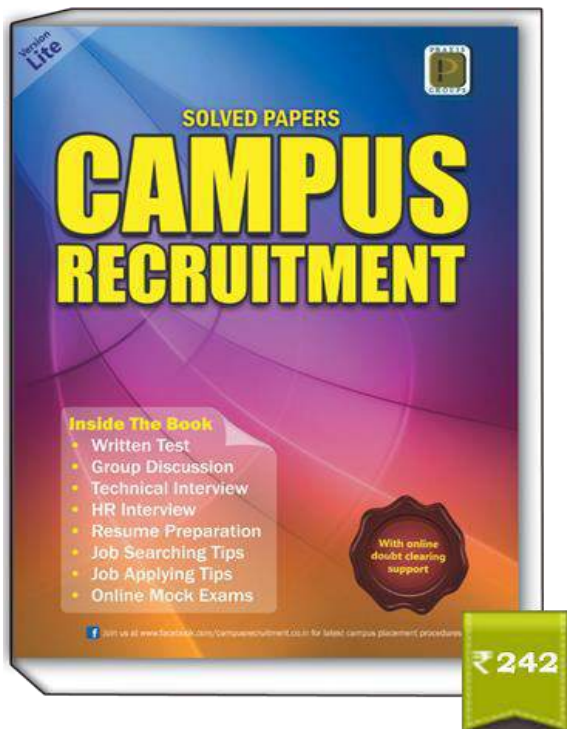
b: If statement-2 alone is sufficient, but statement-1 alone is not sufficient to answer the question.

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.

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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, disrespectful, 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

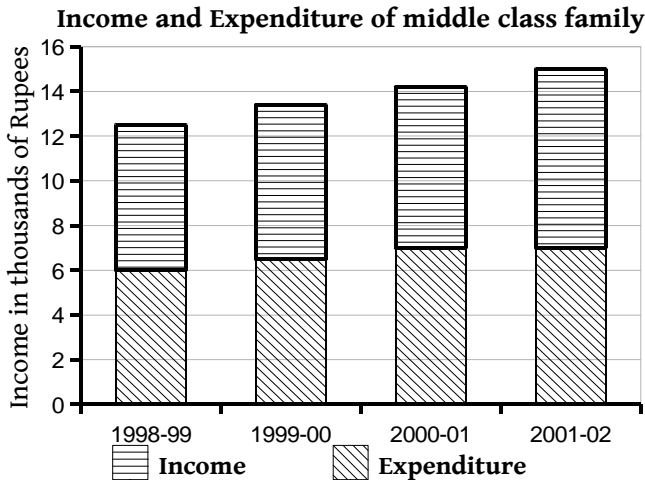
85)a; To be undaunted is to be impervious, undisturbed and 'fearless'.

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:



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) $\frac{6!}{3!}$ c) $\frac{6!}{2!}$ d) $\frac{6!}{3!2!1!}$ e) $\frac{6!}{5!}$

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

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

7) Let A and B be two events such that $P(A) = \frac{1}{4}$;

$$P(B) = \frac{1}{3} \text{ and } P(A \cup B) = \frac{5}{12} .$$

What is the value of $P(A/B) P(B) + P(A/B^c) P(B^c)$?

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

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: $x \text{ t } y = x^2 + y^2$ 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

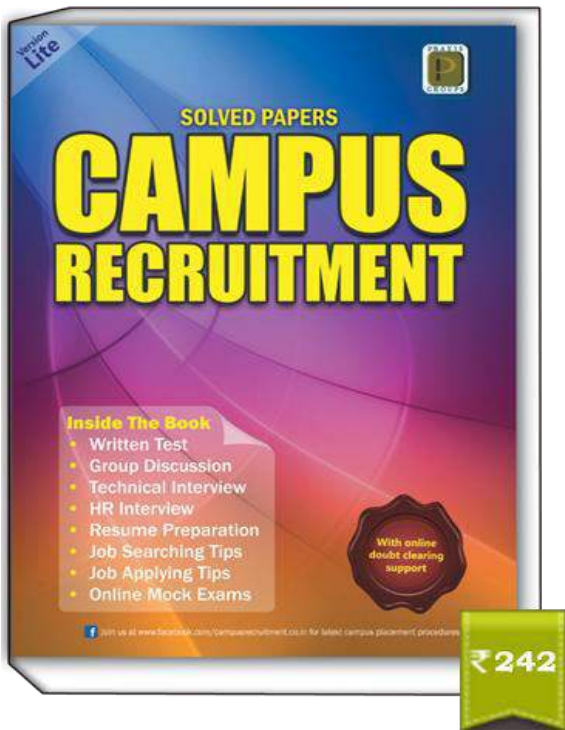
12) If a certain sum of money invested at a certain rate of compound interest doubles in 6 years. In how many years will it become 8 times?

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

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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

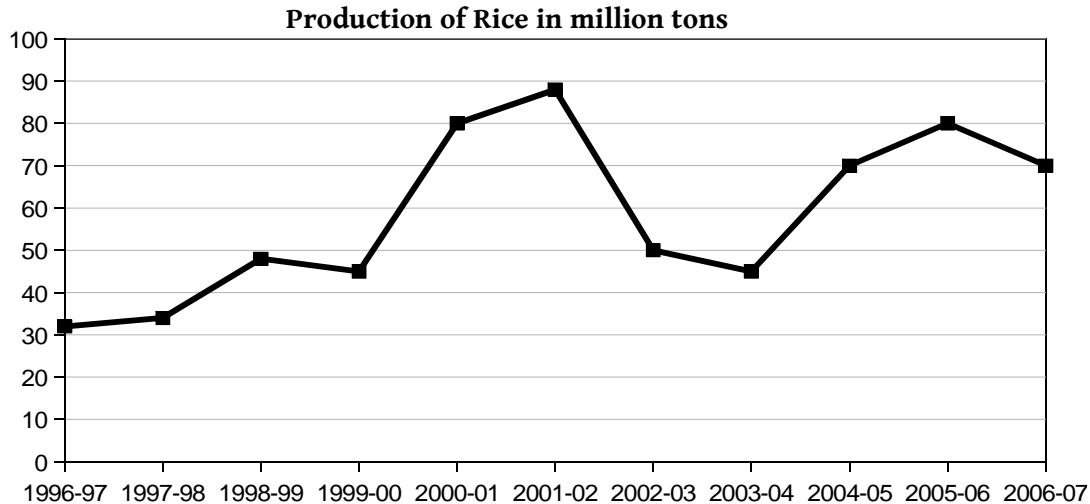
85)a; 'mis' is a negative prefix. Gamist is formed out of the latin root 'gamos' which means marriage. Hence, a misogynist is one who hates marriage. Misogynist (mis+gene+ist) is one who hates woman. (gene is supposed to be the root of anything. So also a woman; hence, from gene 'gynecology'. Anthrop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



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 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) 7⁷ e) 6⁷

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) $\frac{{}^4C_1}{{}^{52}C_1}$ d) $9 \frac{1}{13}$ 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) $\frac{2}{13}$ b) $\frac{1}{169}$ c) $\frac{16}{169}$ d) $\frac{8}{663}$ e) $\frac{6}{13}$

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 $\frac{11x}{23} < \frac{7x}{13}$?

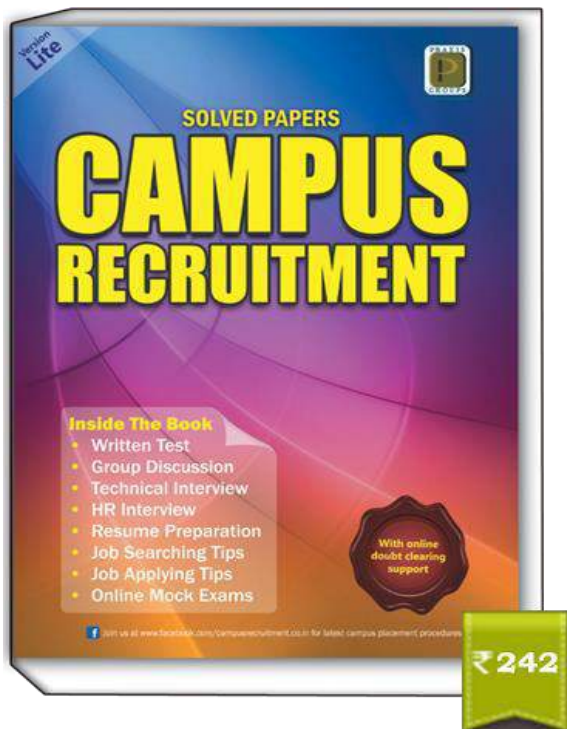
Statement-1: x is an integer.

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 soonerthan.

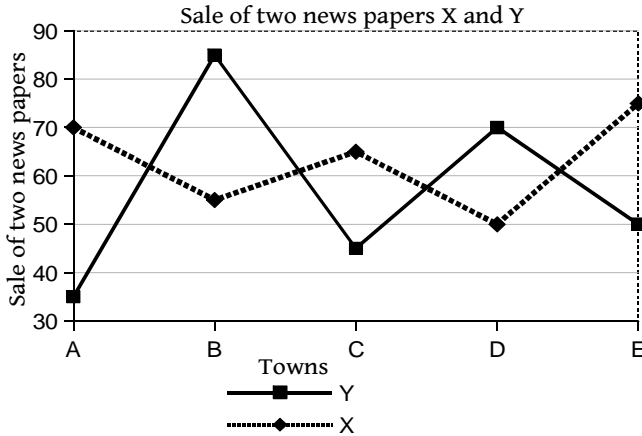
Ask doubt using Question Id: 6491

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.



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° .

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

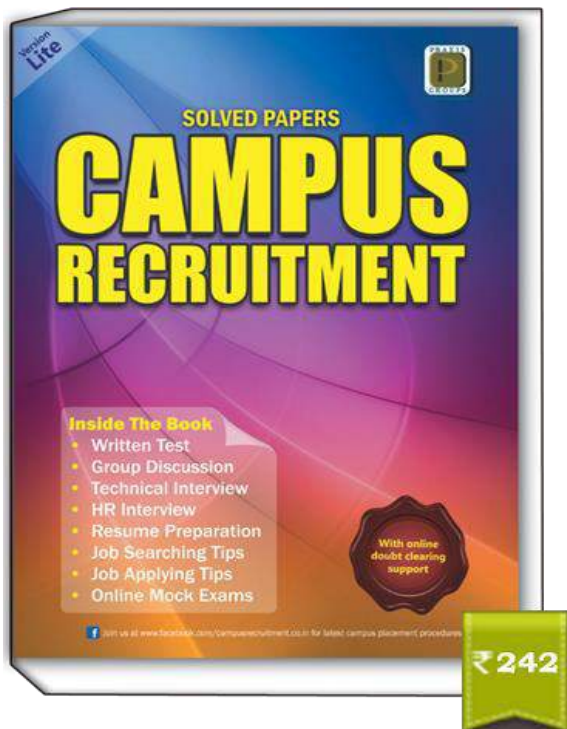
11) The simple interest accrued in four years on a principal of Rs. 20,000 is one tenth of the principal. What is the rate of simple interest per annum?

- 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

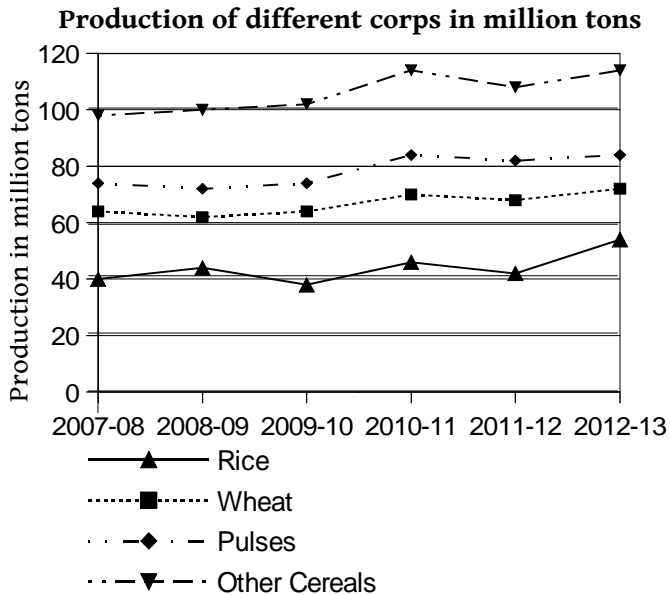
76 to 85 : The paragraph opens with the UN where the assembly session is **76. beginning** shortly; it is a well-**77.known** fact since many other nations also know about the intentions of Pakistan; **78.** Pakistan has been '**campaigning**' against India; alleging is claiming, asserting and emphasizing 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:



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

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

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: $x = \frac{-2}{3}y + 5$.

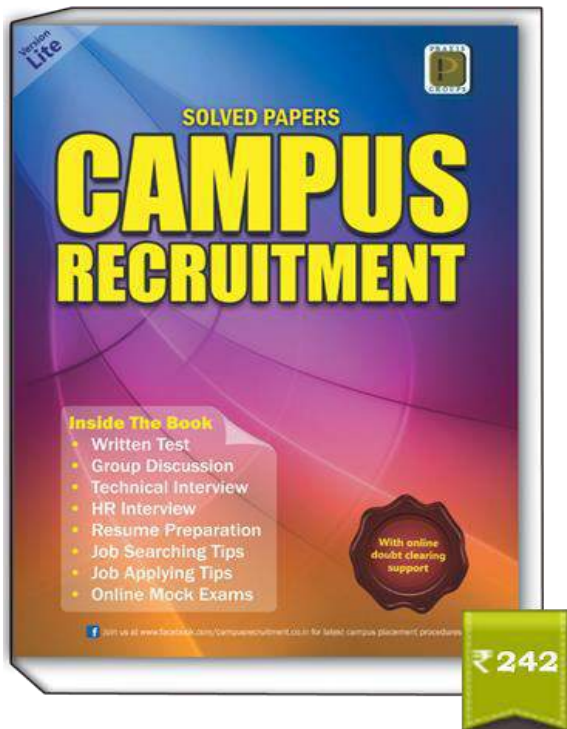
10) The average speed of a bus is $2\frac{1}{2}$ times the average speed of a tractor. The tractor covers 336 km in 21 hours. How much distance will the bus cover in 12 hours.

- 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) $\frac{3}{28}$ b) $\frac{7}{28}$ c) $\frac{5}{28}$ d) $\frac{6}{28}$ e) $\frac{5}{14}$

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

- (a) $\frac{1}{15}$ (b) $\frac{8}{15}$ (c) $\frac{7}{15}$ (d) $\frac{11}{15}$ (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 $\left(\frac{1}{3}\right)^{rd}$ of the speed of a train. 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

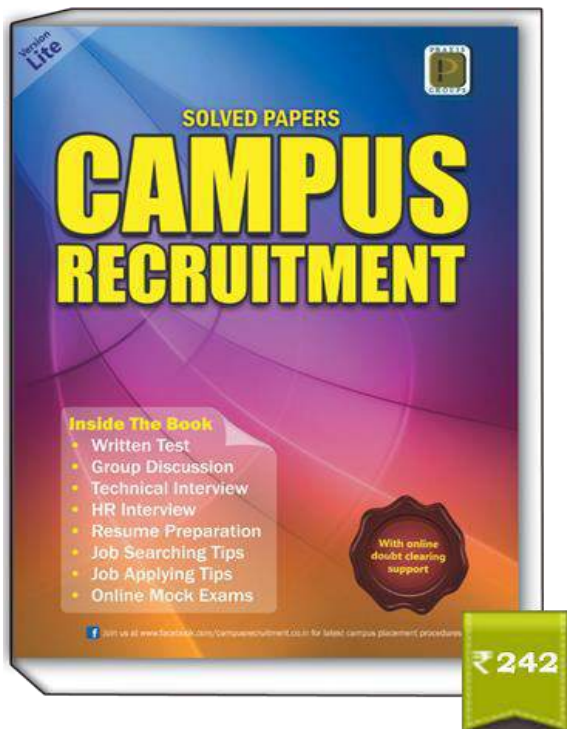
12) What is the difference between the compound interest on Rs.2000 for 1 year at 20% per annum compounded yearly and half yearly?

- 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

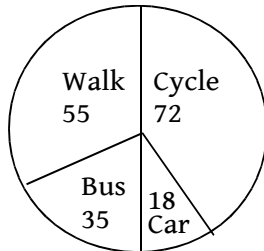
82 to 85: The passage speaks about the fear complex of the people. The author says that mankind alone is living in fear when compared to rest of the species. Author mentions that 'fear has become a predominant trait'. Hence- 27-c; so also the author opines that what happens if somebody else claims his 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° b) 6° c) 4° d) 2° e) 10°

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.

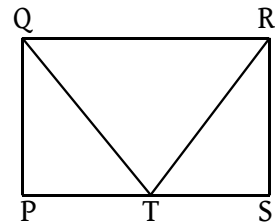
5) For a positive integer 'a', is the product $(a)(a+1)(a+2)$ divisible by 48?

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 $\frac{1}{x} + \frac{1}{y} = 16$?

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° b) 150° c) 168° d) 180° e) 190°

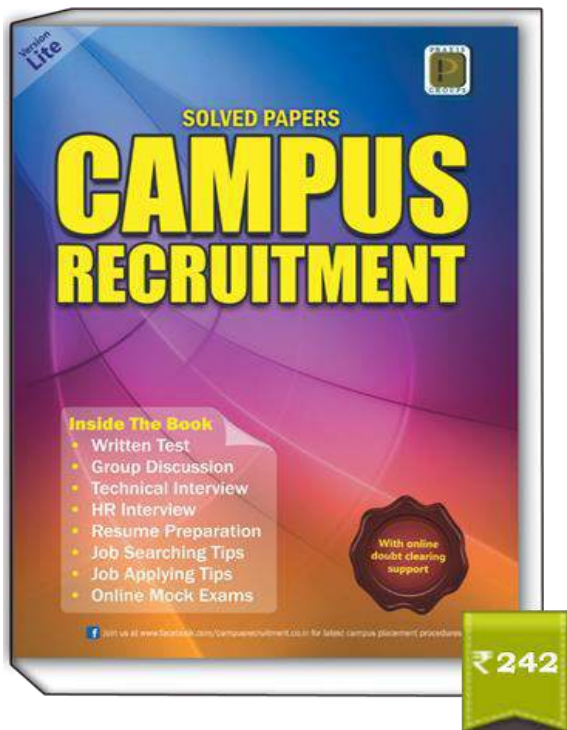
10) Mike, a DJ at a high school radio station, need to play two or three more songs before the end of the school dance. If each composition must be selected from a list of the 10 most popular songs of the year how many unique song schedules are available for the remainder of the dance, if the songs cannot 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) $\frac{3}{20}$ b) $\frac{1}{5}$ c) $\frac{1}{4}$ d) $\frac{3}{10}$ e) $\frac{1}{3}$

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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

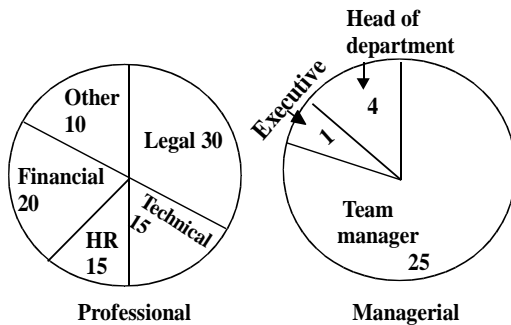
90)d; The author has not concentrated on either bringing about differences or similarities between modernism and postmodernism. The passage also does not exclusively explain the benefits of post modernism. Deviant forms of art are not discussed. The author's intent can be best described as having evaluated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



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

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 on a shelf, if nothing else is arranged with them?

- a) $\frac{5!}{4!}$ b) $\frac{5!}{(4!)^5}$ c) $\frac{20!}{(5!)^4}$
d) $\frac{20!}{(4!)^5}$ e) $\frac{20!}{(5!)^{47}}$

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

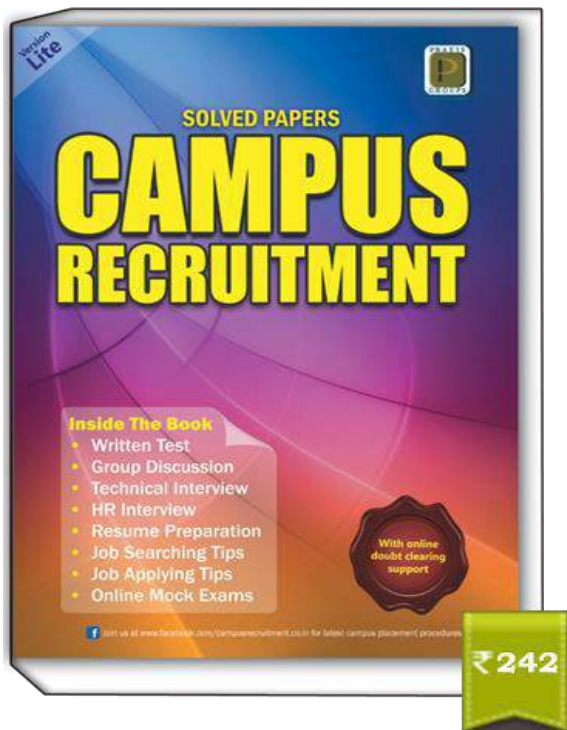
11) If number N is randomly drawn from set of all non-negative single digit integers, what is the probability that $\frac{5N^3}{8}$ is an integer?

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

* 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) $\times 3$ b) $\times 4$ c) $\times 5$ d) $\times 6$ 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

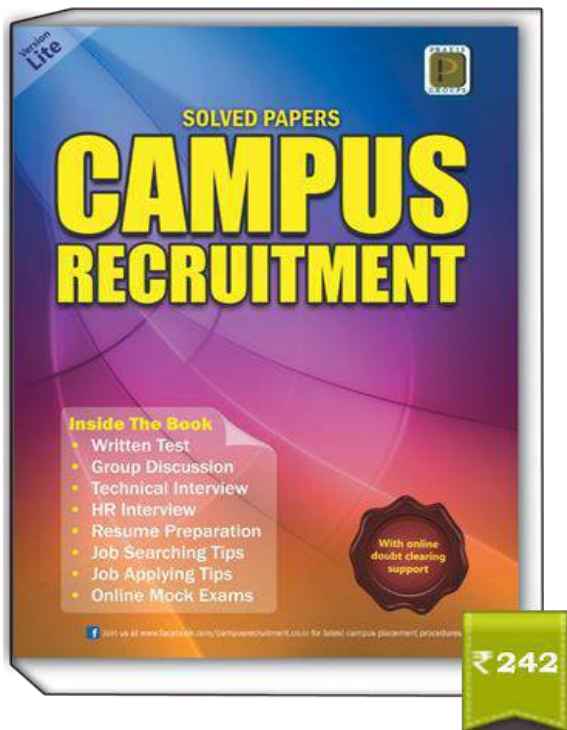
9) At a certain laboratory, chemical substances are identified by an unordered combination of three different colors. If no chemical may be assigned the same three colors as any other. What is the maximum number of substances that can be identified using seven colors? (Asked in Deloitte)

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) $\frac{36!}{30!6!}$ c) $\frac{36!}{30!}$ d) $\frac{36!}{6!}$ e) $30!$

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

Ask doubt using Question Id: 7013

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

Ask doubt using Question Id: 7014

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

Ask doubt using Question Id: 7015

86)d; Stem 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.

Ask doubt using Question Id: 7016

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'.

Ask doubt using Question Id: 7017

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.

Ask doubt using Question Id: 7018

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.

Ask doubt using Question Id: 7019

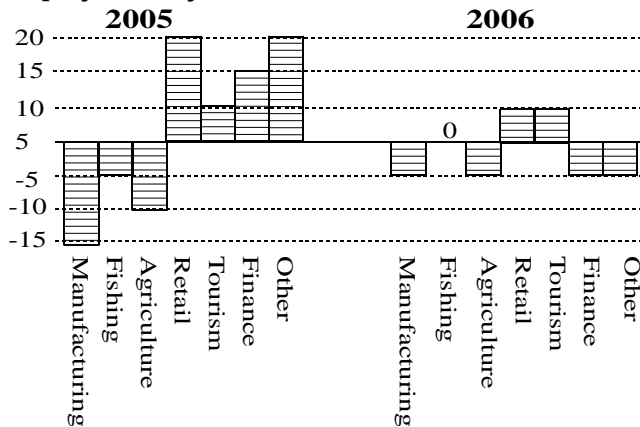
90)b; Observe the last sentence 'additional research using adult stem cells is necessary to understand their full potential as future therapies'...'is necessary' suggests that the author is advising.

Ask doubt using Question Id: 7020

Practice Paper-14

Quantitative Aptitude

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 $\geq 10\%$
- b) Decrease $\leq 10\%$
- c) Increase $\leq 10\%$
- d) Decrease $\geq 10\%$
- 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: $0 < x < \frac{1}{2}$ 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) $\frac{1}{2}$
- b) $\frac{2}{3}$
- c) $\frac{3}{4}$
- d) $\frac{4}{7}$
- e) $\frac{5}{8}$

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)

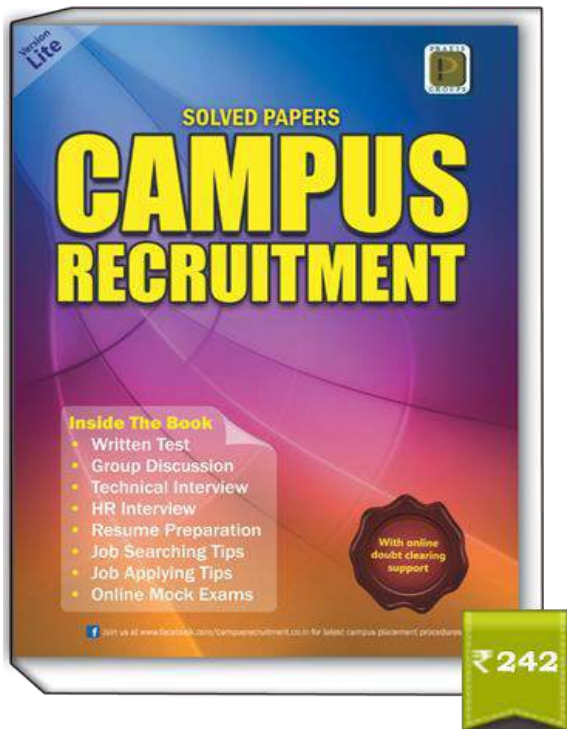
- a) 0%
- b) 10%
- c) 20%
- d) 30%
- e) 40%

13) Find the angle between the hour hand and the minutes hand of a clock when 3.25

- a) 32°
- b) $47\frac{1}{2}^\circ$
- c) $49\frac{1}{2}^\circ$
- d) 37°
- e) $45\frac{1}{2}^\circ$

(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

Quantitative Aptitude

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

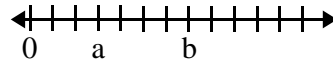
Statement-2: $x = y$.

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

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) $\frac{7!6!}{2!}$ d) $7!6!$ e) $\frac{13!}{2!}$

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

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

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

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

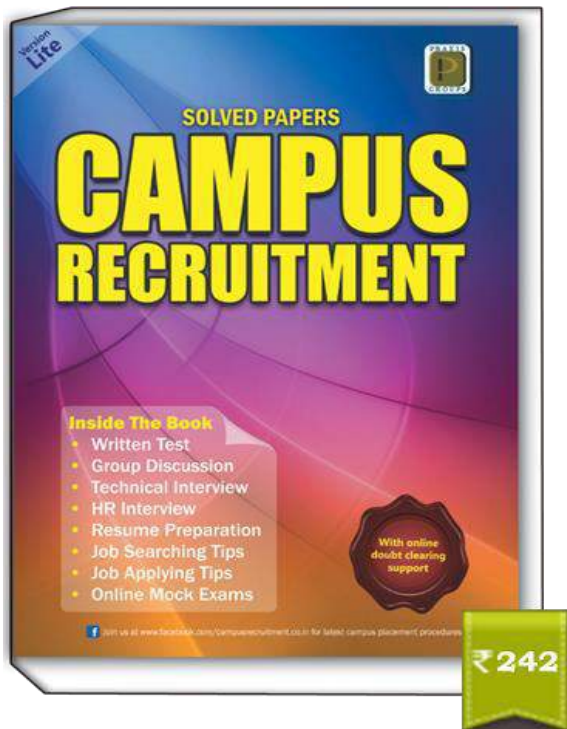
- a) 45 min past 2 b) 40 min past 2
c) $\frac{120}{11}$ min past 2 d) $54\frac{6}{11}$ min past 2
e) 50 min past 2

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

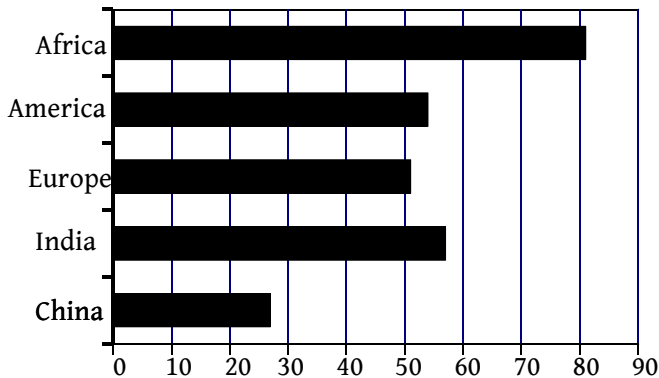
90)a; According to paragraph 1, Germany was insulted by the allied powers. Hence, option d is correct. The first line of the second paragraph alludes that the Allied powers held Germany responsible for the outbreak of the war. Hence B is true. Factors A and C have not been stated in the passage.

Ask doubt using Question Id: 7199

Practice Paper-16

Quantitative Aptitude

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) $4 \times 3 \times 2$

b) $4 \times 3 \times 7$

c) $4 \times 3 \times 9$

d) $(4 \times 3 \times 2) + (4 \times 3 \times 7)$

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) $\frac{1}{52}$

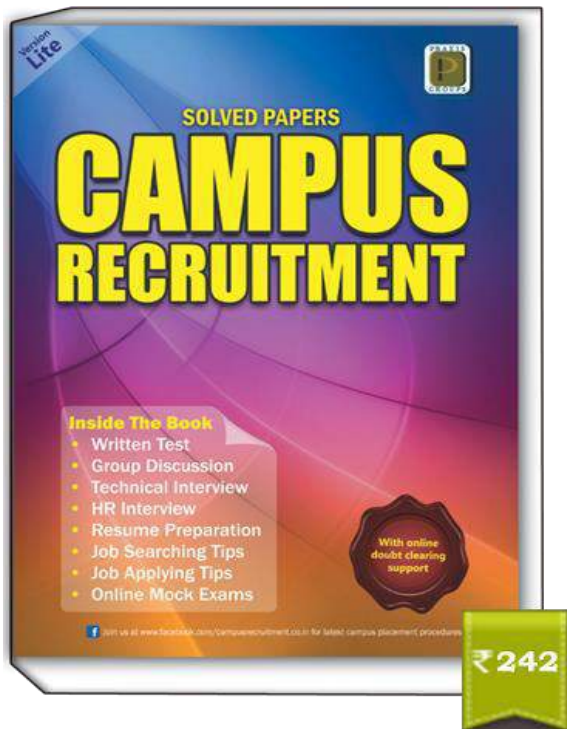
12) A box contain balls numbered 1 to 40, and a ball is drawn at random. What is the probability that the ball is multiple of 5 & 7?

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; 'Torpida' 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 shepherd here refers to the dog.

Ask doubt using Question Id: 7306

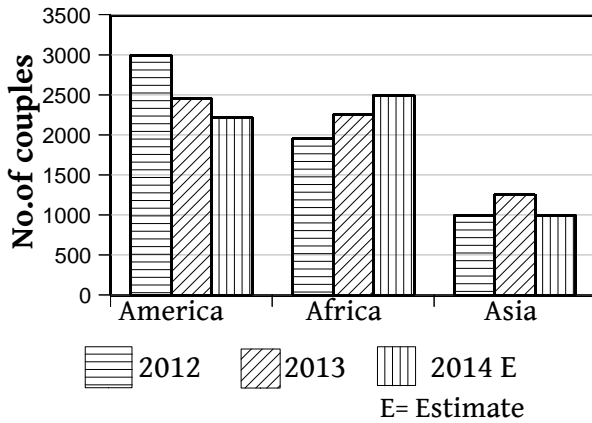
90)b; Online shopping 'evokes' the analogy means to say that brick and mortar stores are very similar to online stores. The buying and selling happens over the internet. EBay is not mentioned to be exclusively a B2B corporation.

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 "v" 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) $6 \times 5 \times 4$ e) $6 \times 3 \times 5 \times 2 \times 4 \times 1$

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?

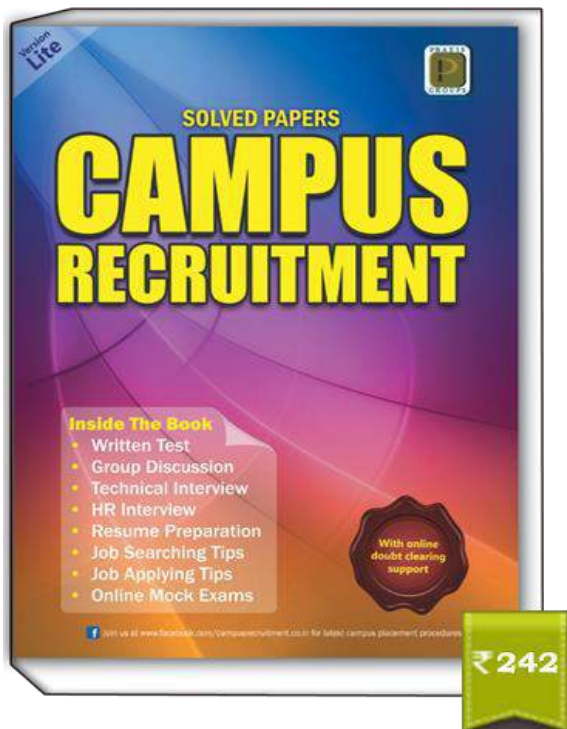
- a) $\frac{4}{5}$ b) $\frac{1}{5}$ c) $\frac{1}{7}$ d) $\frac{2}{7}$ e) $\frac{6}{7}$

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.

Ask doubt using Question Id: 7375

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

Ask doubt using Question Id: 7376

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.

Ask doubt using Question Id: 7377

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

Ask doubt using Question Id: 7378

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

Ask doubt using Question Id: 7379

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.

Ask doubt using Question Id: 7380

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'.

Ask doubt using Question Id: 7381

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

Ask doubt using Question Id: 7382

76)b; 'Corp' means body.

Ask doubt using Question Id: 7383

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

Ask doubt using Question Id: 7384

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

Ask doubt using Question Id: 7385

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

Ask doubt using Question Id: 7386

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

Ask doubt using Question Id: 7387

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

Ask doubt using Question Id: 7388

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

Ask doubt using Question Id: 7389

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

Ask doubt using Question Id: 7390

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

Ask doubt using Question Id: 7391

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

Ask doubt using Question Id: 7392

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.

Ask doubt using Question Id: 7393

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.

Ask doubt using Question Id: 7394

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.

Ask doubt using Question Id: 7395

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.

Ask doubt using Question Id: 7396

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.

Ask doubt using Question Id: 7397

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.

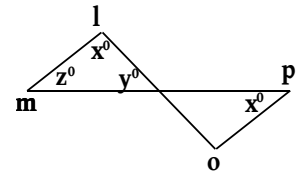
e: If statement-1 and 2 together are not sufficient to answer the question asked, and additional data specifics to the problem are needed.

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) $4 \times 3 \times 5$
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) $\frac{18}{36}$ b) $\frac{15}{36}$ c) $\frac{20}{36}$ d) $\frac{21}{36}$ e) $\frac{17}{36}$

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

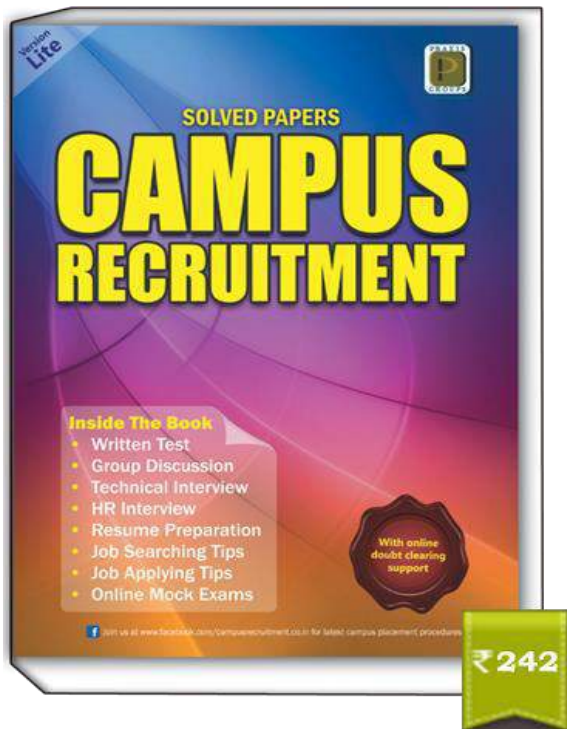
13) A man is standing on a bridge which is 110 m long. He finds that a train crosses the bridge in 30 seconds but himself in 8 seconds. Find the length of the train?

- 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 mood is the verb 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 subject 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

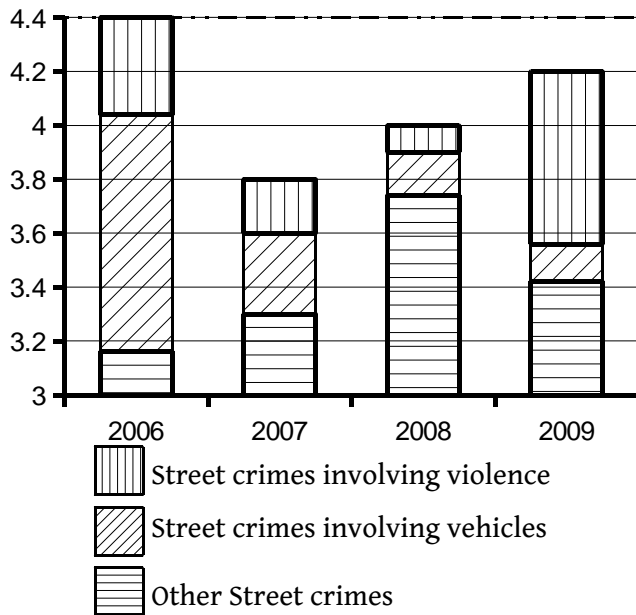
90)c; The hotel business in the US is growing 'from the depths of recession'. Hence option A is incorrect (despite recession). The 'turnover' in investors and the statement about Blackstone Group suggest that the presence of private equity investors in the hotel industry has not been recent. Option 'd' 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.



- How many Street Crimes are recorded for 2009?
a) 11180 b) 5200 c) 4600 d) 4200 e) 7900
- How many Street Crimes recorded in 2007 did not involve vehicles?
a) 30000 b) 3300 c) 3500 d) 3800 e) 3900
- In 2006, what percentage of recorded street crimes involved vehicles?
a) 17% b) 18% c) 19% d) 20% e) 21%
- 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: $\sqrt{2}c = 2\sqrt{2}$

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) $\frac{26}{52}$

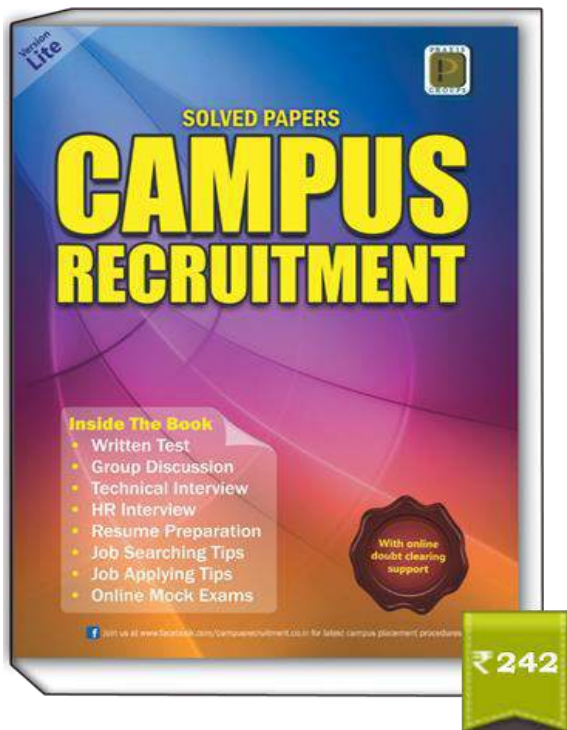
12) There are 12 boys and 15 girls in a class. If 3 students are selected at random, what is the probability that 1 boy and 2 girls are selected?

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.

Ask doubt using Question Id: 7467

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.

Ask doubt using Question Id: 7468

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.

Ask doubt using Question Id: 7469

73)c; 'Taste' is a verb of perception. Verbs of perception are always followed by adjectives and not by adverbs.

Ask doubt using Question Id: 7470

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.

Ask doubt using Question Id: 7471

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.

Ask doubt using Question Id: 7472

76)c; 'Somn' means 'sleep' and 'locu' means 'talk'. 'Somniloquy' means talking in one's sleep.

Ask doubt using Question Id: 7473

77)a; 'Gen' means people and 'cide' means killing. 'Genocide' means killing a large number of people.

Ask doubt using Question Id: 7474

78)b; 'Ante' means 'before'. 'Antediluvian' means a very ancient period.

Ask doubt using Question Id: 7475

79)d; 'Trans' means across or beyond. 'Gress' means 'go'. 'Transgress' means go beyond/against law.

Ask doubt using Question Id: 7476

80)c; 'Crac' means 'power'. Bureau means office.

Ask doubt using Question Id: 7477

81)c; The blank takes a word that is relevant to 'patient information'. The correct choice is c.

Ask doubt using Question Id: 7478

82)a; 'Retrieved' means 'recalled'. This word is relevant to the blank.

Ask doubt using Question Id: 7479

83)a; The passage suggests that the MT employees can work by 'telecommuting'. The other options are not valid.

Ask doubt using Question Id: 7480

84)d; The following sentence hints that the type of storage is 'electronic'.

Ask doubt using Question Id: 7481

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.

Ask doubt using Question Id: 7482

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.

Ask doubt using Question Id: 7483

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.

Ask doubt using Question Id: 7484

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.

Ask doubt using Question Id: 7485

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.

Ask doubt using Question Id: 7486

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.

Ask doubt using Question Id: 7487

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) $\times 6$ b) $\times 6.25$ c) $\times 6.5$
d) $\times 6.75$ 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 'l'm' 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: $1 < a \leq 2$; **Statement-2:** $2 \leq a < 3$.

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) $2! \times 3!$ 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?

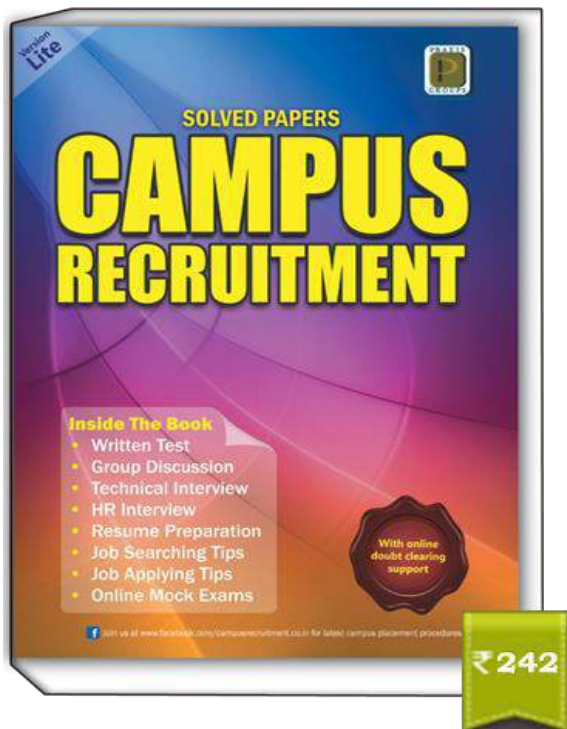
- a) 10 sec b) 11 sec c) 12 sec d) 13 sec e) 14 sec

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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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) $LCM = \frac{LCM \text{ of numerator}}{HCF \text{ of denominator}}$

b) $HCF = \frac{HCF \text{ of numerator}}{LCM \text{ of denominator}}$

3) Product of two numbers = Their HCF \times 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 $n = \frac{n(n+1)}{2}$
 b) Sum of squares of first n natural numbers = $\frac{n(n+1)(2n+1)}{6}$
 c) Sum of cubes of first n natural numbers = $\left(\frac{n(n+1)}{2}\right)^2$
 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 \times odd = odd b) odd \times even = even
 c) even \times even = even
 7) Factorial: a) $m! = m \times (m-1) \times (m-2) \times \dots \times 1$
 e.g. $8! = 8 \times 7 \times 6 \times \dots \times 1$
 b) $0! = 1$
 8) Let, $x = \sqrt{y + \sqrt{y + \sqrt{y + \dots}}}$ then, $x = \sqrt{y + x}$
 9) Result on division:
 Dividend = (Quotient \times Divisor) + Remainder

Averages

1) Average of n numbers,

$$\text{Average} = \frac{\text{Sum of } n \text{ numbers}}{n}$$

e.g. Average of 2, 4, 6, 8 is

$$\text{Average} = \frac{2+4+6+8}{4} = \frac{20}{4} = 5$$

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, $\frac{(Am+Bn)}{(m+n)}$.

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,

$$x + \left(1 + \frac{N}{m}\right)y$$

b) If m persons left, then average age decreased by y years then the average age of outgoing persons

$$\text{is, } x - \left(1 + \frac{N}{m}\right)y$$

4) Average speed = $\frac{\text{Total Distance}}{\text{Total Time}}$

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, $9 \times 5 = 45$.

Ratio, Proportion & Variation

1) The ratio of two quantities a and b in same units is, $\frac{a}{b}$ 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 $(a : b)$

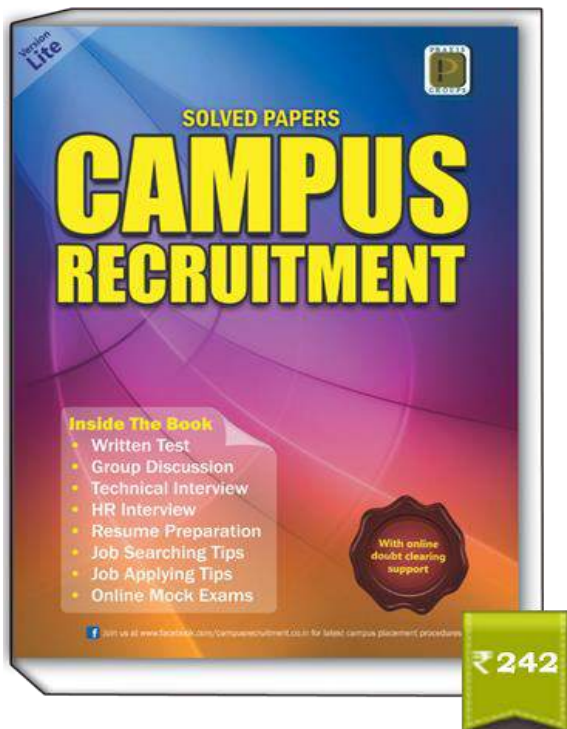
a) Duplicate ratio = $a^2 : b^2$

b) Sub - duplicate ratio = $\sqrt{a} : \sqrt{b}$

c) Triplicate ratio = $a^3 : b^3$

d) Sub - triplicate ratio = $a^{1/3} : b^{1/3}$

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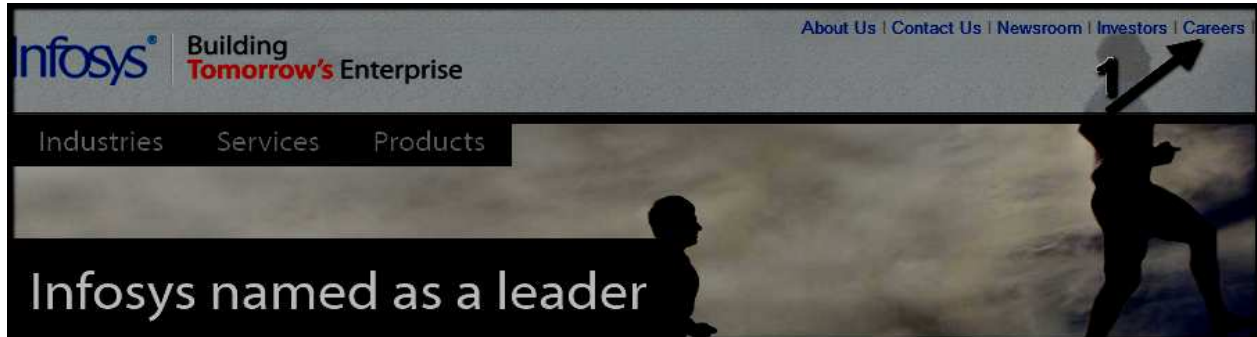
Applying Jobs through Companies Web site

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.

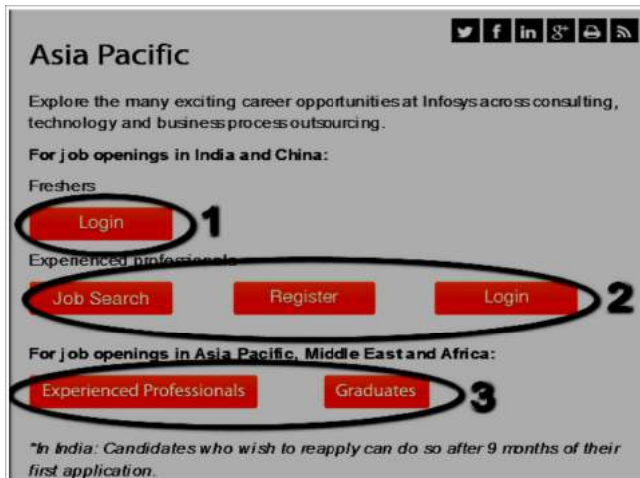
Step 1: On the home page of the websites, observe the link called “Careers” or ”Job opening” or any thing which is related to job. In the below example notice the “Careers” link at the top right corner. (Represented using arrow mark).



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.



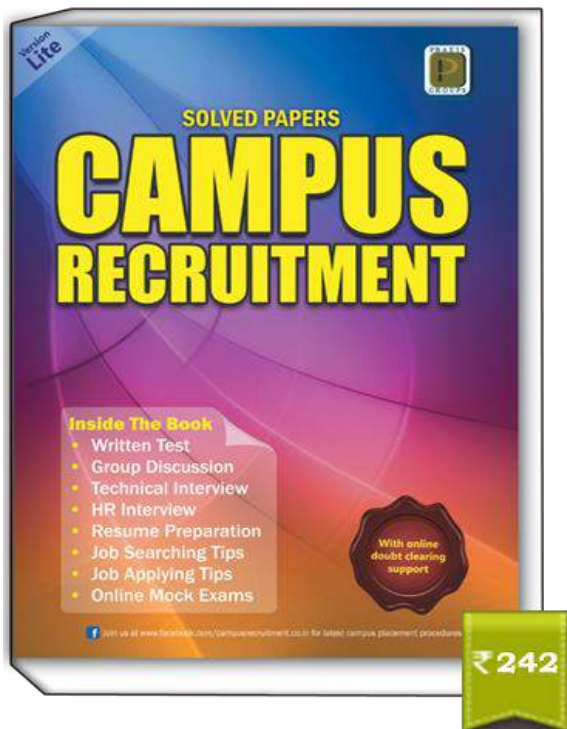
Step 3: After clicking on Job Opportunities, You can notice the following screen. If you are a new member, then first you need to register by providing your academic, personal information.



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).

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Profile updating in Naukri.com:

A) Profile Summary:

- Log in to your Naukri.com account. Click on 'My Naukri' and then click on 'View and Update Profile'.
- Then the following screen will be displayed. Now Click on 'Edit' at 'Profile Summary'.
- Profile Summary is a short explanation about your skills, competencies and your objectives. If you fail to give an impressive profile summary, the recruiters may not read your full profile for the required job.

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Kenche Vamshi Krishna

Resume Headline : Microsoft Certified Professional - Microsoft .NET Frame Work - Application development Foundation

Current Designation: Not Mentioned Total Experience: 01 Year(s) 0 Month(s)

Current Company: Not Mentioned Annual Salary: ₹ 0 Lakhs 0 Thousands

Current Location: Hyderabad / Secunderabad Highest Degree: UG Education [B.Tech/B.E.]

Preferred Location: INDIA Phone: 8008459759 (Verified) | 91-08542-252617

Functional Area: IT Software - Application Programming / Maintenance Email: kenchevamshikrishna@gmail.com (Verified)

Role: Software Developer Permanent Address: H.No:10-5, Koyanagar,Pilalamarri Road.

Industry:IT-Software/Software Services Hometown/City: mahabubnagar

Date of Birth: Apr 10, 1991 Pin Code:509002

Gender: Male Marital Status: Single/unmarried

Key Skills: C#.NET , ASP.NET, ADO.NET, HTML, SQL Server , MYSQL , ORACLE

Profile Summary Edit

Not Mentioned

B) Resume Uploading:

- Click on 'My Naukri' and then click on 'View and Update Profile'.
- The last tab is 'Resume' as shown in the below screen shot. Click on 'Edit' and upload your latest updated resume and click on 'save'.

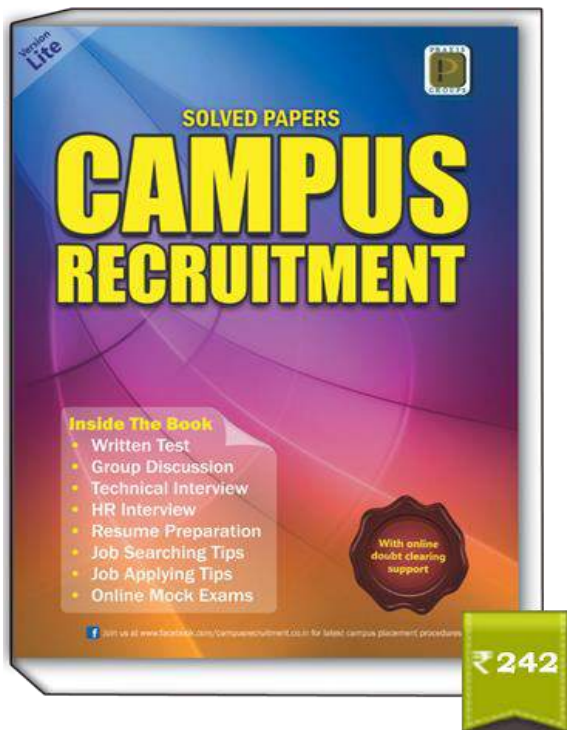
Language	Read	Write	Speak	Proficiency
English	✓	✓	✓	Expert
Hindi	✓	✓	✓	Expert
Telugu	✓	✓	✓	Expert

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Tips to use in Monster.com

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1. Go to 'www.monster.com', then click on 'Join us' button as shown below,



2. Upon clicking on the 'Join us' button, a screen will be displayed just like as shown in 'naukri.com' web site. Fill all the details correctly and click on 'Submit' button at the bottom to complete the registration process.

Profile updating in Monster.com

The profile updating in Monster.com is almost similar to that of Naukri.com. You can follow the same rules that are explained in Naukri.com to update your profile. Monster.com also has a facility to search the jobs by function, jobs by industry, jobs by location and jobs by company. In addition, Monster.com has a new feature of uploading 'Video Resume'.

What is a Video Resume?

It is the new feature introduced by 'Monster.com'. Job seekers can now upload their Video Resumes in the same way as text resumes. This facility will allow the job seeker to personally market oneself by presenting a resume and a video that speaks directly to employers. The video resume allows

prospective employers to see and hear applicants, and get a feel for how applicants present themselves. It is a resume presented on a video clip of 3 to 5 minutes. This can be said as first part of an interview which is to introduce oneself. The Video Resume will allow recruiters to do a preliminary screening of the candidates without getting involved in the processes of interviews and practically evaluate how they present their experience and skills. Recruiters will be able to search for video resumes in the same way as text resumes and also receive the video resumes as job applications.

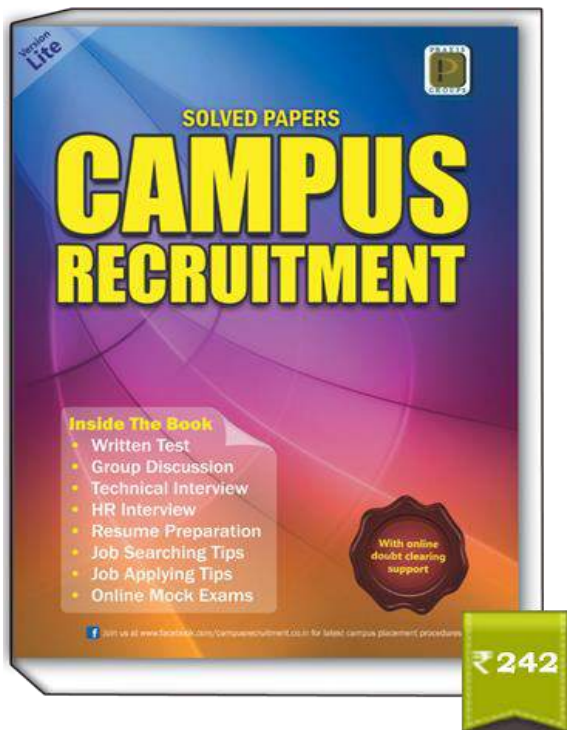
How to submit a Video Resume:

A. Login to your monster.com account. Click on 'Submit Resume' at the top.

B. Fill all the details correctly. At the end of the page you can see the following screen. Here write a good Resume title as explained in the illustration of 'Profile Updating in Naukri.com'. Click on 'Browse...' to select your resume to upload. Then click 'Submit'.

3. After clicking on the 'Submit' button, you get a page which asks to enter your 'Educational Qualification', 'Work Experience', 'Other information' and 'Optional information'. Under the 'Other information' heading you can observe the option to upload 'Video Resume'.

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Resume Preparation

Your resume is the most important document that the employer would refer to. Hence, it is very important to keep your resume professional and up to date. Include your professional details, academic details total work experience, skills, tools and programming languages known. Do not lie about your skills and experience. Resume should be written honestly and carefully. Do not prepare a very long resume. A short but to the point resume should be prepared. Do not copy the resume from other sources. Write it on your own although you may take reference from sample resumes.

Tips to build an effective resume

- Choose a good resume format.
- Pick up a font that is easy to read. Fonts such as Verdana, Times New Roman and Arial in sizes 10-12 are conducive for reading.
- Use the right keywords in your resume.
- Use effective titles.
E.g. **Bad title:** Software development.
Good title: Developing Java API.
- Divide your resume into sub sections.
E.g. One section for details about your work experience, the second section about your academic qualifications, the third about your skill set, the fourth about your personal profile etc.
- The most important points should be placed at the beginning of your resume. This should be uniformly followed in the individual sections as well. The most recent work experience will come first.
- Your contact details including your address, telephone number and email ID should be clearly mentioned in the resume.
- Use bullet points and short sentences in your resume. Do not make the resume boring by giving in depth explanation or being repetitive.
- Avoid writing negative sentences.
- Write a few sentences about your professional goals.
- Use your testimonial references for any skill that you would like to highlight. E.g. winning a technical white paper competition

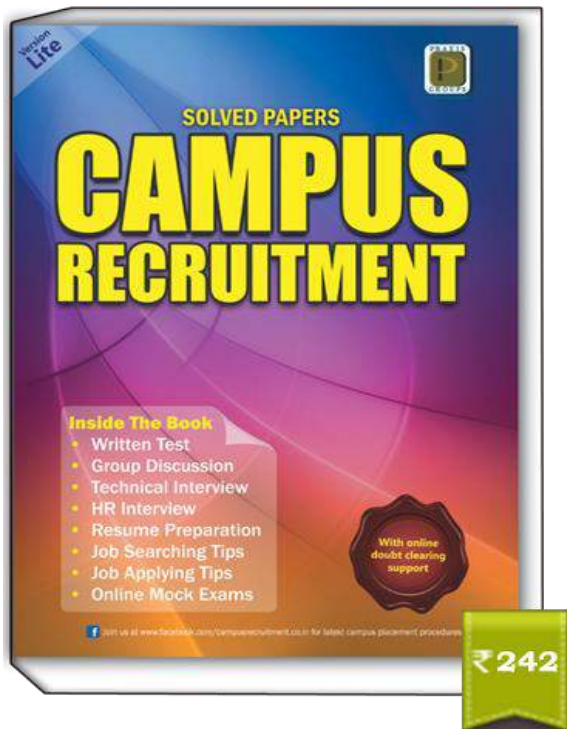
at the national level (testimonials included).

- Do not include your age, unless it is specifically asked for.
- Do not create a standard resume for all the jobs to be applied to. Restructure your resume depending on the job for which you are applying.
- Do a spelling and a grammar check before you send your resume.
- Update your resume on a periodic basis.
- Mention dates in order.
- Do not forget the basics, like your name.
- Mention the employers for whom you have worked.
- Mention the companies for whom you have interned(done your projects).
- Do not use heavy vocabulary or too much of jargon(technical words).
- Get your resume reviewed by a professional.

Things to avoid when writing your resume

- Lying about past work experience or qualification.
- Committing spelling and grammatical errors.
- Making the resume colorful in appearance.
- Including too much of information.
- Not using the right keywords.
- Writing an objective that does not match the job.
- Writing old or outdated details.
- Sending a handwritten or poorly photocopied resume.
- Writing long sentences and paragraphs.
- Writing about your own goals more than your abilities to match the job expectation.
- Using 'I' in the sentences.
- Writing information that would make an employer feel that you discriminate (Mentioning your age/marital status/ number of kids/gender etc).
- Writing about hobbies(Unless your hobby would contribute to your candidature, do not include it).
- Writing incomplete information.

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Technical Interview

In the present days, most of the companies are conducting the Technical Interview Round in their recruitment process. It is one of the efficient way of filtering the suitable person for the industry. Many students have a wrong notion that it is very hard to clear this round. But it is not true. This round will mainly focus on the basics or fundamentals of the stream. Students need to be thorough and confident in the fundamentals of the subject. Recruiting team will not expect that the student should answer all questions perfectly, but he/she must be reasonably good and confident about the subject. The most important questions for technical interview are given below. These questions will give you the idea about what type and toughness generally the companies are asking.

Civil Engineering

Building Materials and Construction

- 1) What is the term used to call the vertical member in the middle of the door/window frame?
- 2) What is the standard or commonly recommended depth between finished level of ground and the general ground level around the building?
- 3) Do you know the number of BIS standard used for building drawing purpose?
- 4) Can you draw a typical sign indicating brick?
- 5) State a few conditions at where eccentricity of building occurs?
- 6) What are the requirements of a material used for damp proofing in building construction?
- 7) At what level damp proofing course on the internal wall is provided if two ground floors at different levels are connected by an internal wall?
- 8) What is the term used to indicate the sides of the openings such as doors or windows?
- 9) What is the maximum thickness of mortar joint width provided in Ashlar fine masonry?
- 10) What is the term used to indicate the rod which is used to dress roughly the hard stone?
- 11) What is the bond that is provided to strengthen the corner of a wall where a modified form of English bond is used?
- 12) What is the duration of immersing brick which are used before they actually placed in position, during construction?
- 13) Does an expansion joint in brick wall is necessary? State its interval along its length?
- 14) What is the minimum depth of concrete at the crown of a jack arch roof?
- 15) What material is used to obtain noiseless flooring?
- 16) What is the approximate thickness of brick course used in Madras Terrace Roof?
- 17) What is the term used to indicate inner surface

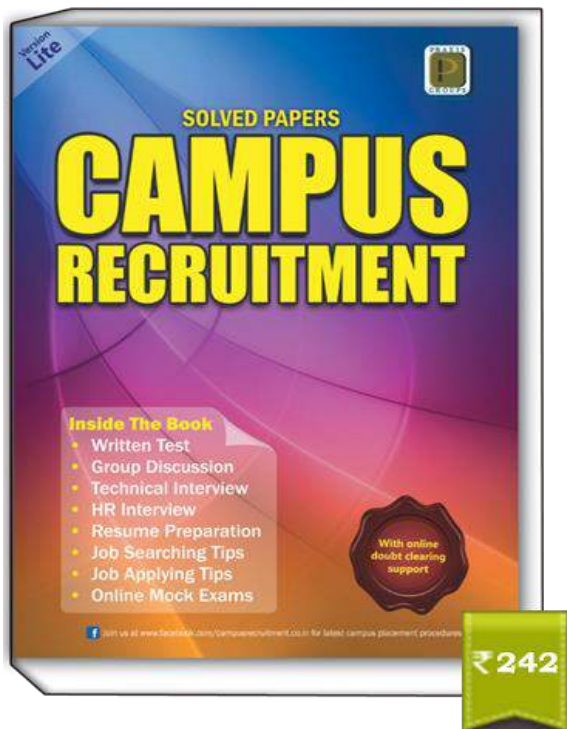
of an arch?

- 18) What is the commonly adopted bearing length used for wooded lintels?
- 19) Up to what spans the brick lintels are used?
- 20) Can you define Wainscot which is used in paneling of wood masonry wall?
- 21) Can you draw a sketch showing soffit, tread and rise of a typical stair case?
- 22) What is the minimum percentage of the window area is provided with reference to the total inside area of the room?
- 23) What is the commonly used thickness of the plywood facing on flush door?
- 24) What is the term used to indicate the angle formed at the intersection of the two roof slopes?
- 25) Steel trusses are generally adopted because..... state the reasons?
- 26) What are the factors that influence quality of mosaic tiles/flooring?
- 27) Where the external metal staircase is generally used?
- 28) What is the most commonly adopted values of tread and rise, for Indian conditions?
- 29) What type of lines a combined line is represented by?
- 30) State the significance of GTS bench mark?

Transportation Engineering

- 31) What is the camber provided in case of WBM roads?
- 32) What is the standard interval of providing expansion joints in a CC pavement slab?
- 33) What is the minimum grade of concrete recommended in case of truck serving CC pavements?
- 34) Do you know anything about Superpave technology?
- 35) What do you know about CRF: Central Road Fund?

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Computer Science and Engineering

C Programming

1) Write a program to print?

```
*****
*****
***
**
*
```

2) When should a type cast be used?

3) What are the different data types?

4) What is the output of the below program?

```
#include<stdio.h>
int main(){
char a='A';
printf("size of variable a is %d \n",sizeof(c));
printf("size of A is %d ",sizeof('A'));
return 0;
}
```

5) Does the below program runs successfully?

```
#include<stdio.h>
int main(){
int const a = 1;
a = 2;
}
```

6) What is difference between i++ and ++i?

7) What is the output of the below program?

```
include <stdio.h>
int main()
{
int m=40,n=20,o=20,p=30;
if (m>n && m !=0)
printf("&& Operator:Both conditions are true\n");
if (o>p || p!=20)
printf("|| Operator : Only one condition is true\n");
if (!(m>n && m !=0))
printf("! Operator : Both conditions are true\n");
else
printf("! Operator : Both conditions are true. But, status is inverted as false\n");
}
```

8) What is the output of the following code?

```
#include<stdio.h>
void main(){
int check=2;
```

```
switch(check){
case 1: printf("Infosys");
case 2: printf("Gail");
case 3: printf("L&T");
default: printf("AirIndia");
}
}
```

9) What is the difference between

- a. parameter passed by reference
- b. parameter passed by value

10) In the code below, which variable has the largest scope?

```
include <stdio.h>
int b;
int main()
{
int c;
return 0;
}
int a;
```

11) Can we convert *int* to *double*? If yes, give an example expression?

12) What is the difference between string and character arrays?

13) Define structure and give an example?

14) What does static variable mean?

15) What is the benefit of using 'const'?

16) What is recursive function? Write a program of Fibonacci series using recursive function?

17) Give a syntax of declaring array?

18) Write a program to print every element of 2 x 5 x 3 dimensional array?

19) What is a pointer?

20) How do you use a pointer to a function?

21) What do you mean by inline function?

22) What are the different storage classes in C?

23) What is the difference between printf () and sprintf ()?

24) Does there exist any other function which can be used to convert an integer/float to a string?

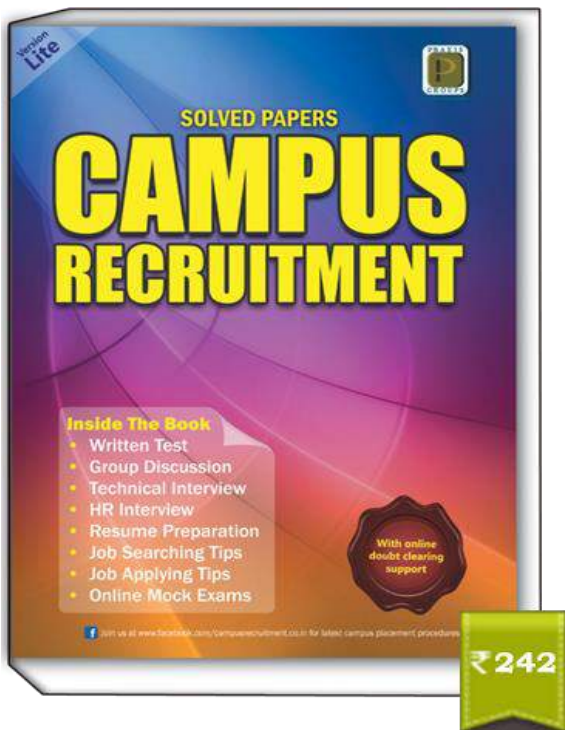
25) Can a variable be both constant and volatile?

26) Advantages of a macro over a function?

27) Which bit wise operator is suitable for checking whether a particular bit is on or off?

28) When should the volatile modifier be used?

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HR Interview

Introduction:

The interview is the last step for hiring and probably the most important. Interviews are conducted to assess a candidate's suitability for an organization and the hiring role.

Why an interview is conducted:

The purpose of an interview is to ascertain what a candidate has mentioned in his resume. It is a brief meeting where your technical knowhow will be assessed in addition to your communication skills, motivational factors, your attitude, your goals and objectives. An interview is a two way process where an employer gets to know the prospective(to be hired) employee and an employee gains insight of the organizational and the role being offered to him.

What qualities does an interviewer observe?

a) Attitude:

The most important factor that determines who gets hired and who doesn't is NOT who is best qualified, who has the most experience or skills, or who has the best resume. It is the attitude! Show positive attitude and your excitement for the job. Do not show arrogance even if you are a college topper.

b) Communication Skills:

Regardless of how much of knowledge you possess, unless you know how to express yourself clearly, the interview may not turn out to be in your favor. Powerful communication skills have the ability to compensate for short coming in other areas. A candidate must speak confidently and use clear language with as little jargon as possible. His conversation with the interviewer must reflect his enthusiasm, awareness and his attitude.

c) Confidence:

Approaching an interview with confidence is one of the keys of a winning strategy. Your confidence is a reflection of optimism and speaks a lot about how you would handle a challenging professional situation. Confidence is great; overconfidence is a strict no-no.

d) Body language:

Good body language is an indicator on good non-verbal communication. Walk into the room with a

confident smile and introduce yourself to everyone present with a firm handshake. Maintain a good posture, do not slouch, maintain eye contact, and nod your head when being talked to. Do not yawn, bite your nails, shake your limbs, look around or look down.

e) Leadership skills:

A leader always motivates. A leader directs his team towards success. When you attend an interview, make sure your interviewer knows that you are ready to take initiatives and help the members of your team. Learnability is another sign of a good leader. Letting the interviewers know your eagerness to learn new things will prove to be a bonus for you.

f) Emotional Maturity:

A candidate must be calm and composed during an interview. Sometimes, the interviewer, on purpose may provoke you by asking some unexpected questions. Do not get provoked or angry. Instead, show your maturity by answering the question in a manner that does not offend the interviewer. It is better to be honest and give direct answers instead of speaking as if you agree with all the points that the interviewer says. The given situation should be handled with ease, maturity and composure.

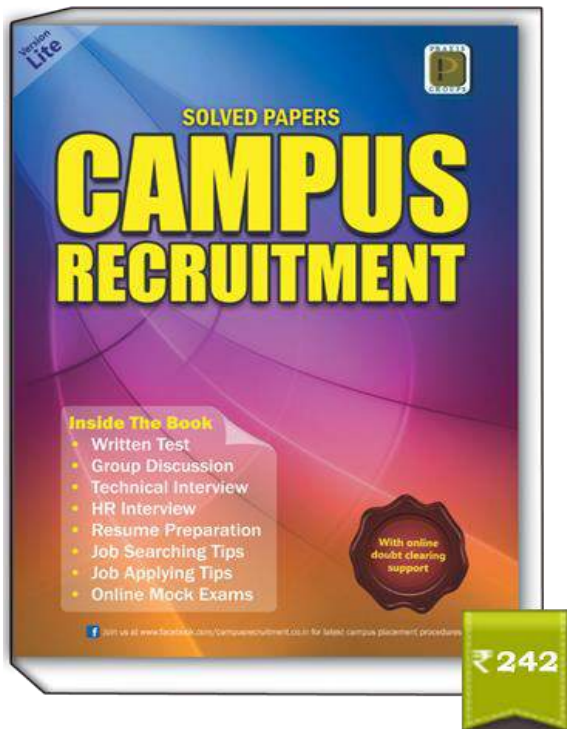
g) Dressing Sense:

It is important to dress right for an interview. Your appearance talks loads about your personality. Wear neatly ironed formal clothes with a good pair of shoes. Women should apply minimal make up and avoid too much of jewelry. Both men and women should have well manicured nails and a professional hairstyle. Going shabbily dressed for an interview would cast an impression of your being uninterested towards the meeting.

h) Integrity:

Every interviewer appreciates honesty as that is one of the main traits to look for in a candidate. Answer the questions honestly. Do not lie about your professional achievements. Be humble. Do not throw an air of arrogance. If you are appreciated for something, be gracious to say thanks.

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Mock Interview with Body Language

Right Way:

On entering the interview room,

Student: Good morning (smiling). I am Krishna. Pleased to meet you. (Shake hands with everyone in the interview panel. If a lady is present, wait for her to extend her hand first).

Wait for the interviewer to offer a seat. Sit only when you are asked to and say a polite "Thanks" for the same.



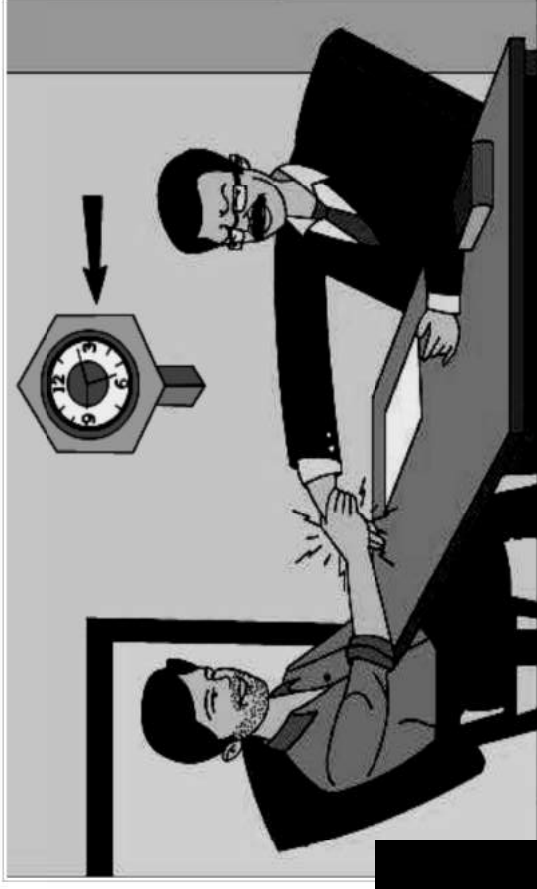
Observation:

- Student is in time to the interview.
- Greeting the interviewer in a good way.
- Giving a firm hand shake to the interviewer.
- From the movement you walk in to the interview room be real.

Wrong Way:

On entering the interview room,

Student: Hi! Good morning. How're you?



Observation:

- Student came late to the interview.
- Greeting the interviewer in an informal way.
- Giving a bone crushing hand shake.
- Student sat down on the chair without asking/giving permission.

* When the interviewer offers you a seat at the start of the job interview, sit upright but not too stiffly in your chair. This indicates that you are comfortable and feeling confident. Hunching down in your chair gives the impression of nervousness and low self-esteem. A sloppy posture indicates a careless attitude and a lack of energy. Sitting on the edge of your chair can come across as being nervous and tense.

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.

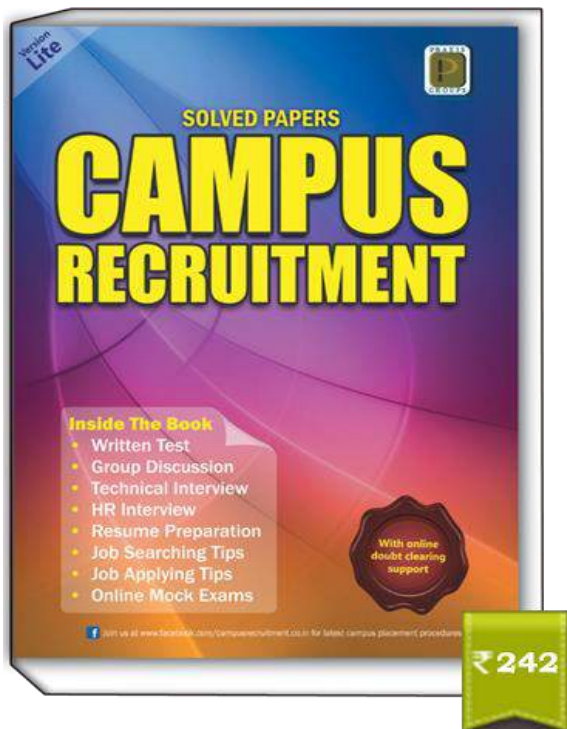


Bad Answer: My name is Krishna. I am 22 years of age. I have studied B.Tech from MVIT. Hm, I completed inter in the year 2008 with 75%. I passed SSC in 2006 with 88%. I am a native of Amalapuram. My father is a retired bank employee. My mother is a teacher. Um, My brothers are pursuing B.tech in Hyderabad. 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.

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10. Do you have any questions?



Good Answer:

1. Can you please tell me about the kind of training we would be given to a fresher before we are allocated to our projects?
2. What aspirations do you have for my role in the company?
3. What qualities does someone need for this role ?

Body Language Observation:

- When you are asked this Question, simply don't say, 'I don't have any Questions'. Come prepared with a few good questions about the position and your responsibilities. Also, you can highlight your ability to analyze and think quickly on your feet by posing questions about key issues that emerge during the interview.
- Say 'Thank You' gracefully at the end of the interview for interviewing.



Bad Answer:

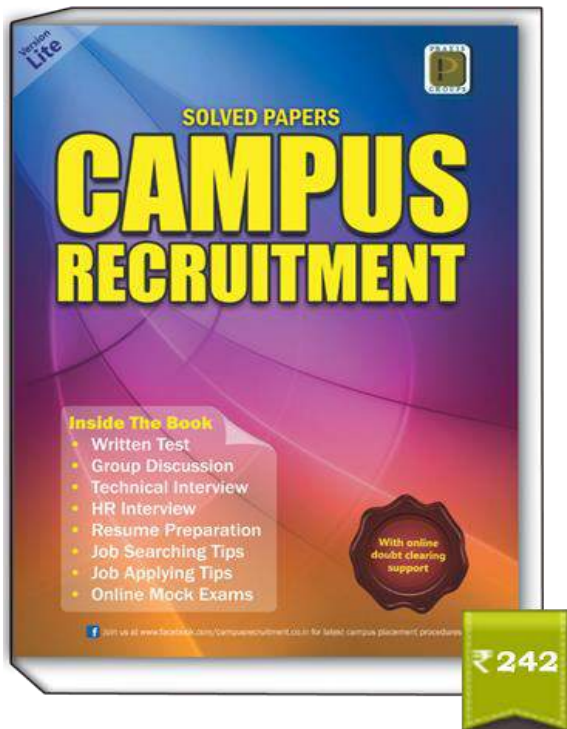
1. Do I have to work long hours?
2. What is the leave policy of the company?
3. What are the services offered by the company?
4. Are you married?

Body Language Observation:

- Looking constantly downwards/ upwards makes you appear insincere or submissive.
- Avoid short/ irrelevant/ answers for interview questions.

One important key to success is self-confidence. An important key to self-confidence is preparation.

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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 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,

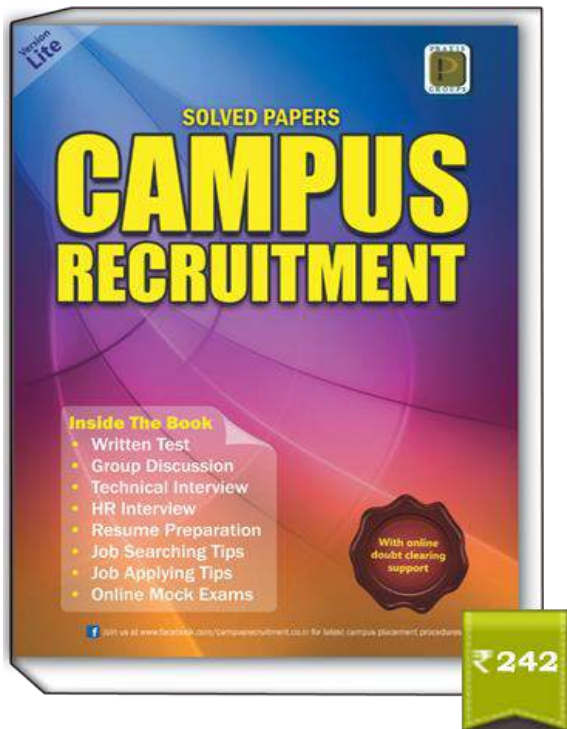
- We are becoming too dependent on computers.
- Video games contribute to youth violence.
- Reservation system should be removed.

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.

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How to know whether a company is genuine

It has become extremely common these days to come across companies that are fake or do not do what they are believed to be doing. A candidate searching for a job should beware not to walk into the trap of such fake employers. The following are some of the tips which will help you know the basic information about a company, its website etc

1. Some companies may ask you for initial down payments through Demand drafts. There may be a disclaimer stating that the money cannot be refunded. Remember, no genuine company takes money from the candidates. Beware of this trap. This is outright unethical.

2. There may be emails sent out to a job seeker's email ID from some fake ID that may appear like a genuine ID of well-known companies. Hackers may resort to phishing and try to get your bank account details. This is another trap.

3. You can view the company data by visiting the website of the Ministry of Corporate Affairs.

4. If the company claims to be registered, check with the government website of that country if they are registered. For Indian companies, visit <http://www.mca.gov.in/DCAPortalWeb/dca/MyMCALogin.do?method=setDefaultProperty&mode=16> and enter the company's full name here and search, if it is found, it means that the company has been registered, but further investigation is required.

5. If any Company claims to be registered with MCA/Registrar of Companies (RoC), you may ask them for the CIN (Company Incorporation Number) which is allotted by RoC (each registered Company has a unique CIN allotted). If you cannot find the Company Name either using the name or CIN provided, you can be sure that it's not registered with Registrar of Companies/Government of India.

6. Visit the following link to check the company's master data :

<http://www.mca.gov.in/DCAPortalWeb/dca/MyMCALogin.do?method=setDefaultProperty&mode=31>

7. Visit the following link to view index of charges <http://www.mca.gov.in/DCAPortalWeb/dca/MyMCALogin.do?Method=setDefaultProperty&mode=32>

This displays the details about any Secured Loan taken from any Bank by the Company.

8. To view signatory details visit:

<http://www.mca.gov.in/DCAPortalWeb/dca/MyMCALogin.do?method=setDefaultProperty&mode=39>

This displays the details of the Signatory/Directors like Name, Residential Address etc.

9. Domain names are easily available. Hence, domain names and email IDs are not reliable means to ascertain whether a company is genuine or not. The company's address is the only legitimate means of finding out whether the company exists or not.

10. Look for terms and conditions. Legitimate companies will almost always have 'terms of use' or 'terms and conditions'. If they do have terms, read through them carefully for things that sound suspicious.

11. Search for the company through trusted web search engines like google. If the search does not show any results, it is a cause of concern.

12. Check for the registration data of the company. Also research on the person who has registered the company. You can check for the date on which the website was created and when it would expire. Any indication of the website expiring in the near future is a cause of concern. A company's website is hosted (put on an internet somewhere on some servers), so we can find information about the website and that can tell us a lot about a company. There a number of websites which keep records and make a lot of information accessible; e.g. domaintools.com, whois.net, networksolutions.com etc. By searching for information about the website we can find following information:

Company's name, Address, How old the website is, Registered domain name, Host server, Website status, Creation date of the website etc.

13. Do browse the company website for the company's credit score, their performance, the director structure, their financial performance etc.

14. Check for discrepancies in the website. Sometimes a website may be self-contradictory i.e. stating something at one place and contradicting the same at another place. This shows that information has not been coordinated and is an indicator of being thoroughly unprofessional.

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