FULL TEST

Max. Marks : 200   **No. of Qs. 200**   **Time : 120 min.**   **Date : ..../......../................**

QUANTITATIVE APTITUDE

Directions (Qs. 1-5): *What value should come in place of question mark (?) in the following equations?*

1. 4.78% of $1255 + 3.24\%$ of $440 = 0.5\%$ of ?
   (a) 14260   (b) 14492   (c) 14636   (d) 14849
   (e) 15002

2. $(128.5 \times 64) + (13.8 \times 465) = ? \times 25$
   (a) 524.48   (b) 556.02   (c) 574.36   (d) 585.64
   (e) 596.16

3. $(4)^{3.7} \times (8)^{-12} \div (32)^{-1} \div \dfrac{1}{(8)^{-3}} = (2)^?$
   (a) -0.2 (b) 1.8   (c) 2.6   (d) 3.2
   (e) 4.8

4. $\dfrac{4056}{?} = \dfrac{?}{7776}$
   (a) 5612   (b) 5616   (c) 5620   (d) 5624
   (e) 5628

5. $\dfrac{2}{7}$ of $\dfrac{3}{11}$ of $\dfrac{5}{9}$ of $51975 = ?$
   (a) 1980   (b) 2110   (c) 2160   (d) 2250
   (e) 2300

Directions (Qs. 6-10): *Find out the approximate value which should replace the question mark (?) in the following questions. (You are not expected to find out the exact value).*

6. $95^{3.7} \div 95^{0.9989} = 95^?$
   (a) 1.9   (b) 3   (c) 2.99   (d) 3.6
   (e) 2.7

7. $\sqrt{1000} + \dfrac{3.001}{4.987}$ of $1891.992 = ?$
   (a) 2500   (b) 1230   (c) 1640   (d) 1525
   (e) 2130

8. $0.0004 \div 0.0001 \times 36.000009 = ?$
   (a) 0.10   (b) 1.45   (c) 145   (d) 14.5
   (e) 1450

9. 137% of $12345 = ?$
   (a) 17000   (b) 15000   (c) 1500   (d) 14300
   (e) 900

10. $3739 + 164 \times 27 = ?$
    (a) 105400   (b) 4000   (c) 8200   (d) 690
    (e) 6300

Directions (Qs. 11 - 15) : *In each of the following questions a number series is given. Only one number is wrong in each series. Find out that wrong number, and taking this wrong number as the first term of the second series formed following the same logic, find out the third term of the second series.*

11. 1   2   8   21   88   445
    (a) 24.5   (b) 25   (c) 25.5   (d) 25
    (e) None of these

12. 6   7   18   63   265   1365
    (a) 530   (b) 534   (c) 526   (d) 562
    (e) None of these

13. 7   23   58   127   269   555
    (a) 263   (b) 261   (c) 299   (d) 286
    (e) None of these

14. 5   4   9   18   66   195
    (a) 12   (b) 25   (c) 20   (d) 18
    (e) None of these

15. 2   7   28   146   877   6140
    (a) 242   (b) 246   (c) 252   (d) 341
    (e) None of these

Directions (Qs. 16-20): *Study the following Pie-chart and the table given below it carefully to answer these questions.*

Percentage-wise Distribution of lecturers in six different subjects in a university
Total Number of Lecturers: 1600
Percentage of Lecturers
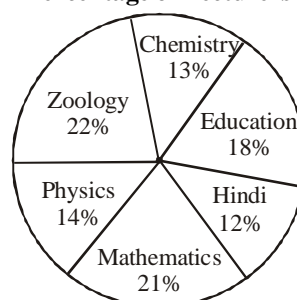
Ratio of male to Female Lecturers in the University

Lecturers	Males	Females
Mathematics	3	4
Education	5	3
Hindi	1	3
Chemistry	1	7
Physics	9	5
Zoology	7	9

16. Total number of lecturers (both male and female) in Hindi is approximately what per cent of the total number of female lecturers in Mathematics and Chemistry together?
    (a) 58 (b) 43 (c) 47 (d) 51
    (e) 40

17. What is the difference between the total number of lecturers (both male and female) in Zoology and the total number of male lecturers in Chemistry and Education together?
    (a) 192 (b) 182 (c) 146 (d) 136
    (d) None of these

18. What is the difference between the number of female lecturers in Zoology and the number of male lecturers in Hindi?
    (a) 156 (b) 160 (c) 150 (d) 153
    (e) None of these

19. What is the total number of male lecturers in the university?
    (a) 696 (b) 702 (c) 712 (d) 668
    (e) None of these

20. What is the ratio of the number of female lecturers in Physics to the number of male lecturers in Mathematics?
    (a) 5:9 (b) 2:9 (c) 3:7 (d) 5:3
    (e) None of these

21. Punit, Vinit and Ajit begin to jog around a stadium. They complete their revolutions in 45 seconds, 54 seconds and 36 seconds respectively. After how many seconds will they be together at the starting point ?
    (a) 360 (b) 600 (c) 540 (d) 450
    (e) None of these

22. If the numerator of a fraction is increased by 350% and the denominator of the fraction is increased by 300%, the resultant fraction is $\frac{9}{22}$. What is the original fraction?
    (a) $\frac{3}{4}$ (b) $\frac{5}{12}$ (c) $\frac{7}{9}$ (d) $\frac{4}{11}$
    (e) None of these

23. 9 Men working for 7 hours a day can complete a piece of work in 15 days. In how many days can 6 men working for 9 hours a day, complete the sample of work ?
    (a) $17\frac{1}{2}$ days (b) $16\frac{3}{4}$ days (c) 16 days (d) $15\frac{3}{4}$ days
    (e) None of these

24. Nitin rides a bicycle at the speed of 15 kms/hr., but stops for 10 minutes to take rest every 20 kms. How much time will he take to cover a distance of 150 kms.?
    (a) 12 hours 30 minutes (b) 11 hours 10 minutes
    (c) 10 hours 20 minutes (d) 12 hours 10 minutes
    (e) None of these

25. A bag contains four red, six black and seven green balls. Three balls are drawn randomly. What is the probability that the balls drawn contain exactly two red balls?
    (a) $\frac{39}{340}$ (b) $\frac{301}{340}$ (c) $\frac{55}{408}$ (d) $\frac{353}{408}$
    (e) $\frac{54}{91}$

Directions (Qs. 26-30): *Study the following information carefully to answer the questions that follow :*

In a tournament, a total number of 400 players have participated in five different sports, viz badminton, hockey, lown tennis, cricket and baseball. 15 per cent of the total players have participated in badminton. Two-fifths of the total players have participated in hockey. 6 per cent of the total players have participated in lawn tennis. 25 per cent of the total players have participated in cricket. Remaining players have participated in baseball. One-fourth of the hockey players are females. 20 per cent of badminton players are males. Half the players who have participated in Lawn Tennis are males. There are 45 female cricket players. No female player has participated in baseball.

26. The number of female players participating in badminton is approximately what percentage of the number of players participating in baseball?
    (a) 72 (b) 75 (c) 80 (d) 95
    (e) 86

27. What is the difference between the number of male players participating in hockey and the number of female players participating in lawn tennis?
    (a) 92 (b) 9 (c) 102 (d) 108
    (e) None of these

28. If due to certain reason cricket game was dropped and all the cricket players left the tournament, then what would be the total number of male players in the tournament?
    (a) 200 (b) 210 (c) 190 (d) 220
    (e) None of these

29. What is the ratio of the number of male players participating in badminton to the number of female players participating in hockey?
    (a) 3:11 (b) 3:10 (c) 6:11 (d) 11:6
    (e) None of these

30. What is the total number of female players participating in the tournament?
    (a) 130 (b) 120 (c) 145 (d) 155
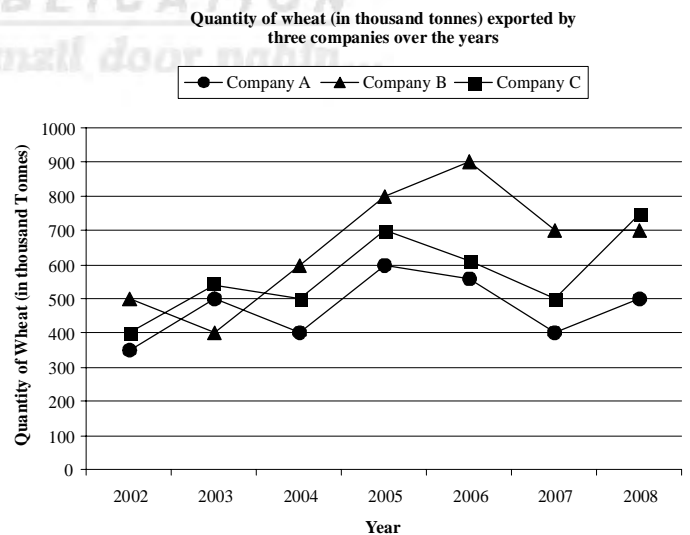   (e) None of these

Directions (Qs. 31-35) : *Study the following table carefully and answer the questions given below it.*

Number of Teachers in various Universities (Males & Females) and percentage of PhDs amongst them				
	Males		**Females**	
Univers ities	**No. of Teachers**	**% of PhDs**	**No of Teachers**	**% of PhDs**
A	175	32	125	44
B	250	74	105	40
C	180	45	120	55
D	320	65	80	80
E	290	30	100	35

31. What is the average number of female teachers in all the Universities together ?
    (a) 100 (b) 105 (c) 108 (c) 106
    (e) None of these

32. What is the total number of non PhD male teachers from University A and C together ?
    (a) 137   (b) 208   (c) 145   (d) 218
    (e) None of these

33. What is the respective ratio of the non-PhD male teachers from University D to the non-Ph.D. female teachers from the same University ?
    (a) 7:1   (b) 13 : 4   (c) 9:5   (d) 16:13
    (e) None of these

34. What is the difference between the number of female PhD teachers from University E and male non-PhD teachers from the same University ?
    (a) 165   (b) 52   (c) 158   (d) 75
    (e) None of these

35. The number of PhD teachers in University B (Both males and females) is approximately what per cent of the total number of teachers in the University ?
    (Both males and females)
    (a) 54   (b) 68   (c) 64   (d) 52
    (e) 58

36. A, B, C, D and E are five consecutive odd numbers. The sum of A and C is 146. What is the value of E?
    (a) 75   (b) 81   (c) 71   (d) 79
    (e) None of these

37. Excluding the stoppages, the speed of a bus is 64 km/hr and including the stoppage the speed of he bus is 48 km/hr. For how many minutes does the bus stop per hour?
    (a) 12.5 minutes   (b) 15 minutes
    (c) 10 minutes   (d) 18 minutes
    (e) None of these

38. Swapnil, Aakash and Vinay begin to jog around a circular stadium. They complete their revolutions in 36 seconds, 48 seconds and 42 seconds respectively. After how many seconds will they be together at the starting point.
    (a) 504 seconds   (b) 940 seconds
    (c) 1008 seconds   (d) 470 seconds
    (e) None of these

39. On a test consisting of 250 questions, Jassi answered 40% of the first 125 questions correctly. What percent of the other 125 question does she need to answer correctly for her grade on the entire exam to be 60%?
    (a) 75   (b) 80
    (c) 60   (d) Cannot be determined
    (e) None of these

40. The average monthly income of a family of four earning members was ₹15,130. One of the daughter in the family got married and left home, so the average monthly income of the family came down to ₹ 14,660. What is the monthly income of the married daughter?
    (a) ₹ 15,350   (b) ₹ 12,000
    (c) ₹ 16,540   (d) Cannot be determined
    (e) None of these

41. Prathik sold a music system to Karthik at 20% and Karthik sold it to Swasthik at 40% gain. If Swasthik paid ₹ 10,500 for the music system, what amount did Prathik pay for the same?
    (a) ₹ 8,240   (b) ₹ 7,500
    (c) ₹ 6,250   (d) Cannot be determined
    (e) None of these

42. In a college election fought between two candidates, one candidate got 55% of the total valid votes. 15% of the votes were invalid. If the total votes were 15,200, what is the number of valid votes the other candidate gots?
    (a) 7106   (b) 6840
    (c) 8360   (d) 5814
    (e) None of these

43. Farah got married 8 years ago. Today her age is $1\frac{2}{7}$ times her age at the time of her marriage. At present her daughter's age is one-sixth of her age. What was her daughter's age 3 years ago?
    (a) 6 years   (b) 4 years
    (c) 3 years   (d) Cannot be determined
    (e) None of these

44. The simple interest obtained on an amount of ₹ 45,000 at the end of 4 years is ₹ 15,300. What would be the approximate compound interest obtained on the same amount at the same rate of interest in the same period?
    (a) ₹18,244   (b) ₹ 19,500
    (c) ₹ 16,285   (d) ₹ 18,566
    (e) ₹ 17,364

45. By how much is $\frac{4}{5}$ of 1150 less than $\frac{5}{6}$ of 1248?
    (a) 140   (b) 115
    (c) 125   (d) 120
    (e) None of these

Directions (Qs.46-50): *Study the following graph carefully to answer the questions:*

Quantity of wheat (in thousand tonnes) exported by three companies over the years

46. The percentage rise in exports from the previous year was the maximum during which year for Company B?
    (a) 2005   (b) 2004
    (c) 2006   (d) 2008
    (e) None of these

47. What is the ratio of total exports of the three companies in 2003 to that in 2006?
    (a) 41 : 29   (b) 51 : 29
    (c) 29 : 51   (d) 29 : 41
    (e) None of these

48. What are the average exports of Company B for all the years? (in thousand tonnes rounded off to two digits after decimal)
    (a) 766.67   (b) 667.14
    (c) 657.14   (d) 756.57
    (e) None of these
49. Total exports of Company A for all the years is approximately what percent of the total exports of Company B for all years?
    (a) 75   (b) 128   (c) 139   (d) 68
    (e) 72
50. What is the percent increase in the exports of company C from 2004 to 2008?
    (a) 50   (b) 33.33
    (c) 150   (d) 133.33
    (e) None of these

Reasoning

Directions (Qs. 51-53): *Study the following information to answer the given questions:*

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers and are arranged as per some logic based on the value of the number.)

Input : win 56 32 93 bat for 46 him 28 11 give chance
Step I : 93 56 32 bat for 46 him 28 11 give chance win
Step II : 11 93 56 32 bat for 46 28 give chance win him
Step III : 56 11 93 32 bat for 46 28 chance win him give
Step IV : 28 56 11 93 32 bat 46 chance win him give for
Step V : 46 28 56 11 93 32 bat win him give for chance
Step VI : 32 46 28 56 11 93 win him give for chance bat

Step VI is the last step of the arrangement the above input.

As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input for the questions:

Input: fun 89 at the 28 16 base camp 35 53 here 68 (All the numbers given in the arrangement are two-digit numbers.)

51. Which of the following would be step II?
    (a) 89 fun at 28 16 base camp 35 53 here 68 the
    (b) 35 53 28 68 16 89 the here fun camp base at
    (c) 16 89 at fun 28 camp base 35 53 68 the here
    (d) 53 28 68 16 89 35 the here fun camp base at
    (e) None of these
52. Which word/number would be at seventh position from the left in step IV?
    (a) base (b) at   (c) 35   (d) the
    (e) 53
53. Which step number would be the following output?
    53 28 68 16 89 at 35 the here fun camp base
    (a) There will be no such step.
    (b) III   (c) II   (d) V   (e) IV

Directions (Qs. 54-59): *Study the following information to answer the given questions:*

Twelve people are sitting in two parallel rows containing six people each such that they are equidistant from each other. In row

1: P, Q, R, S, T and V are seated and all of them are facing South. In row 2: A, B, C, D, E and F are seated and all of them are facing North. Therefore, in the given seating arrangement, each member seated in a row faces another member of the other row.

S sits third to the right of Q. Either S or Q sits at an extreme end of the line. The one who faces Q sits second to the right of E. Two people sit between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbour of B faces the person who sits third to the left of P. R and T are immediate neighbours. C sits second to the left of A. T does not face the immediate neighbour of D.

54. Who amongst the following sit at the extreme ends of the rows?
    (a) S, D (b) Q, A (c) V,C (d) P, D
    (e) Q, F
55. Who amongst the following faces S?
    (a) A   (b) B   (c) C   (d) D
    (e) F
56. How many persons are seated between V and R?
    (a) One (b) Two (c) Three (d) Four
    (e) None of these
57. P is related to A in the same way as S is related to B based on the given arrangement. Which of the following is T related to, following the same pattern?
    (a) C   (b) D   (c) E   (d) F
    (e) Cannot be determined
58. Which of the following is true regarding T?
    (a) F faces T.
    (b) V is an immediate neighbour of T.
    (c) F faces the one who is second to the right of T.
    (d) T sits at one of the extreme ends of the line.
    (e) Q sits second to the right of T.
59. Four of the following five are alike in a certain way based on the given arrangement and so form a group. Which is the one that does not belong to that group?
    (a) A-T   (b) B-T
    (c) F-P   (d) C-V
    (e) E-Q
60. Which of the following expressions is definitely true if the given expressions 'R < P' as well as 'S > Q' are definitely true?
    (a) $P > Q = R \leq T < S$ (b) $S > T \geq R > Q < P$
    (c) $Q > R \leq T > P \geq S$ (d) $S > T \geq R > Q > P$
    (e) None of these

Directions (Qs. 61-65): *Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.*

(a) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
(b) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
(c) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

(d) if the data even in both statements I and II together are not sufficient to answer the question.

(e) if the data in both statements I and II together are necessary to answer the question.

61. Which bag amongst P, Q, R, S and T is the heaviest?
    I. Bag Q is heavier than R and S. Bag T is heavier than only bag P.
    II. Only three bags are lighter than R. The weight of bag Q is 50 kg, which is 2 kg more than bag R.

62. Are all the five friends - A, B, C, D and E - who are seated around a circular table facing the centre?
    I. A sits to the left of B. B faces the centre. D and E are immediate neighbours of each other. C sits second to the right of E.
    II. D sits second to right of C. C faces the centre. Both E and A are immediate neighbours of D. B sits second to the right of A.

63. In a college, five different subjects, viz Physics, Chemistry, Botany, Zoology and Mathematics, are taught on five differeIlt days of the same week, starting from Monday and ending on Friday. Is Chemistry taught on Wednesday?
    I. Two subjects are taught between Zoology and Mathematics. Mathematics is taught before Zoology. Chemistry is taught on the day immediately next to the day when Physics is taught. Botany is not taught on Friday.
    II. Three lectures are scheduled between the lectures of Botany and Zoology. Mathematics is taught immediately before Physics.

64. Is it 9 o'clock now?
    I. After half an hour, the minute and the hour hands of the clock will make an angle of exactly 90° with each other.
    II. Exactly 15 minutes ago, the hour and the minute hands of the clock coincided with each other.

65. Is F granddaughter of B?
    I. B is the father of M. M is the sister of T. T is the mother of F.
    II. S is the son of F. V is the daughter of F. R is the brother of T.

Directions: (Qs. 66-70): *In the following questions, the symbols ★, δ, %, @ and © are used with the following meaning illustrated below:*

'P%Q' means 'P is not smaller than Q'.
'P©Q' means 'P is neither smaller than nor equal to Q'.
'P★Q' means 'P is neither greater than nor equal to Q'.
'PδQ' means 'P is not greater than Q'.
'P @ Q' means 'P is neither greater than nor smaller than Q'.

Now, in each of the following questions, assuming the given statements to be true, find which of the three conclusions I, II and III given below them is/are definitely true and give your answer accordingly.

66. **Statements:** R δ K,   K ★ M,   M @ J
    Conclusions: I. J © K
                     II. M © R
                     III. R ★ J
    (a) Only I and II are true   (b) Only II and III are true
    (c) Only I and III are true   (d) All I, and III are true
    (e) None of these

67. **Statements:** Z @ M,   M © K,   K ★ F
    Conclusions: I. F © Z
                     II. K ★ Z
                     III. F © M
    (a) None is true   (b) Only I is true
    (c) Only II is true   (d) Only III is true
    (e) Only II and III are true

68. **Statements:** B ★ J,   J % W,   W © M
    Conclusions: I. M ★ J
                     II. W ★ B
                     III. B © M
    (a) None is true   (b) Only I is true
    (c) Only II is true   (d) Only III is true
    (e) Only I and III are true

69. **Statements:** V % H,   H @ F,   F δ E
    Conclusions: I. F @ V
                     II. F ★ V
                     III. E % H
    (a) Only either I or II is true
    (b) Only III is true
    (c) Only I and II are true
    (d) All I, II and III are true
    (e) Only either I or II and III is true

70. **Statements:** W © T,   T δ N,   N % D
    Conclusions: I. D ★ T
                   II. W © N
                   III. D @ T
    (a) None is true   (b) Only I is true
    (c) Only II is true   (d) Only III is true
    (e) Only I and II are true

Directions (Qs. 71-75): *Study the following information carefully and answer the questions given below:*

Following are the conditions for selecting Chief Manager Sales in an organization. The candidates must.

(i) be graduate in any discipline with at least 60 per cent marks.
(ii) have secured at least 55 per cent marks in the selection process.
(iii) be at least 30 years and not more than 40 years as on 1.5.2009.
(iv) be a postgraduate degree/diploma holder in Marketing/Sales Management.
(v) have post-qualification work experience of at least eight years in the Sales/Marketing division of an organization.

In the case of a candidate who satisfies all the conditions.
EXCEPT
(A) at (ii) above, but has secured more than 65 per cent marks in graduation, the case is to be referred to GM-Sales.
(B) at (v) above, but has post-qualification work experience of at least five years as Manager - Sales in an organization, the case is to be referred to VP Sales.

In each questions below details of one candidates are given. You are to take one of the following courses of action based on the information and the conditions and sub-conditions given above and mark the number of that course of action as the answer. You are not to assume anything other than the information provided in each case. All these cases are given to you as on 01.05.2009.

Mark answer (a) if the candidate is to be selected.
Mark answer (b) if the candidate is not be selected.

Mark answer (c) if the data provided are inadequate to take decision.

Mark answer (d) if the case is to be referred to the GM - Sales.

Mark answer (e) if the case is to be referred to the VP - Sales.

71. Abhinav Shukla has secured 62 per cent marks in graduation and 58 per cent marks in the selection process. He has been working in the marketing division of a company for the past nine years after completing his postgraduate diploma in Marketing with 55 percent marks. He was born on 5th Aug 1974.

72. Pravin Vohra was born on 2nd July 1972. He has been working in the sales division of an organization for the past ten years after completing his postgraduate degree in Sales Management with 50 per cent marks. He has secured 68 per cent marks is graduation and 50 per cent marks in the selection process.

73. Mita Keswani has been working in the marketing division of an organization for the past eleven years after completing her post graduation. She has secured 62 per cent marks in the selection process and 70 per cent marks in graduation. She was born on 2nd November 1978.

74. Dillip Puhan has secured 52 per cent marks in the selection process and 72 per cent marks in graduation. He has been working for the past twelve years in the marketing division of a company after completing his post graduation in Marketing Management. He was born on 19th March 1972.

75. Seema Mahajan was born on 12th July 1973. She has secured 56 per cent marks in the selection process. She has been working in the sales division of an organization for the past thirteen years after completing her postgraduate degree in Sales Management. She has secured 59 per cent marks in graduation.

Directions (Qs. 76-80): *In each question below is given a statement followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement, then decide which of the answer (a), (b), (c), (d) and (e) is correct answer and indicate it on the answer sheet.*

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76. **Statement** "Z-TV, the only TV which gives the viewers chance to watch two programmes simultaneously" – An advertisement.
    Assumptions
    I. Sale of Z-TV may increase because of the advertisement.
    II. Some people may be influenced by the advertisement and buy Z-TV.
    III. The sale of Z-TV may be on the downward trend.
    (a) None is implicit
    (b) All are implicit
    (c) Only II and III are implicit
    (d) Only I and II are implicit
    (e) None of the above

77. **Statement** The company has recently announced series of incentives to the employees, who are punctual and sincere.
    Assumptions
    I. Those who are not punctual at present may get motivated by the announcement.

II. The productivity of the company may increase.

III. The profit earned by the company may be more than the amount to be spent for the incentive programmes.

(a) None is implicit
(b) All are implicit
(c) Only II and III are implicit
(d) Only I and II are implicit
(e) None of the above

78. **Statement** The company has decided to increase the price of all its products to tackle the precarious financial position.
    Assumptions
    I. The company may be able to wipe out the entire losses incurred earlier by this decision.
    II. The buyer may continue to buy its products even after the increase.
    III. The company has adequate resources to continue production for few more months.
    (a) None is implicit
    (b) Only II and III are implicit
    (c) Only I and III are implicit
    (d) Only II is implicit
    (e) None of the above

79. **Statement** The State Govt. has unilaterally increased by five per cent octroi on all commodities entering into the State without seeking approval of the Central Govt.
    Assumptions
    I. The State Govt. may be able to implement its decision.
    II. The Central Govt. may agree to support the State Govt's decision.
    III. The State Govt. may be able to earn considerable amount through the additional octroi.
    (a) All are implicit   (b) Only I and II are implicit
    (c) None is implicit   (d) Only II and III are implicit
    (e) None of the above

80. **Statement** Ashok decided to leave office at 4:00 pm to catch a flight to Bangalore departing at 6 : 00 pm.
    Assumptions
    I. The flight to Bangalore may be delayes.
    II. He may be able to reach airport will before 6 : 00 pm
    III. He may get adequate time to reach for a vehicle to go to the airport.
    (a) All are implicit   (b) Only II and III are implicit
    (c) None is implicit   (d) Only II is implicit
    (e) None of the above

Directions (Qs. 81-85): *In each question below are two/three statements followed by two conclusions numbered I and II. You have to take the two/three given statements to be true even if they seem to be a variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.*

Give answer (a) if only conclusion I follows.
Give answer (b) if only conclusion II follows.
Give answer (c) if either conclusion I or conclusion II follows.
Give answer (d) if neither conclusion I nor conclusion II follows.
Give answer (e) if both conclusion I and conclusion II follow.

81-82 Statements: Some institutes are banks. All institutes are academies. All academies are schools.

81. **Conclusions:**
   I. Some institutes are not schools.
   II. All academies being banks is a possibility.
82. **Conclusions:**
   I. All banks can never be schools.
   II. Any bank which is an institute is a school.

83-84 Statements: All energies are forces. No force is torque. All torques are powers.

83. **Conclusions:**
   I. All energies being power is a possibility.
   II. All powers being force is a possibility.
84. **Conclusions:**
   I. All those powers if they are forces are also energies.
   II. No energy is torque.
85. **Statements:** Some paintings are drawings. All sketches are paintings.
   Conclusions:
   I. All sketches are drawings.
   II. Some sketches being drawings is a possibility.

Directions (Qs. 86-87): *Study the following information to answer the given questions :*

Point P is 5 m towards the South of Point M. Point Q is 3 m towards the East of Point P. Point O is 3 m towards the East of Point M. Point N is 2 m towards the South of Point Q.

86. A person, facing North, takes a left turn from point M, walks 4m and stops. He then takes another left turn, walks 5 m and stops at point R. Which of the following points, including R, fall in a straight line ?
   (a) M, O, R   (b) N, R, P
   (c) R, O, Q   (d) R, Q, N
   (e) Q, P, R
87. How far and towards which direction is Point O from Point N?
   (a) 5 m towards South   (b) 7 m towards North
   (c) 8 m towards West   (d) 7 m towards West
   (e) 5 m towards North

Directions (Qs.88-90): *The following questions are based upon the alphabetical series given below:*

T J E N U Q A K I O G R M S P B H F D L V C

88. If 'OD' is related to 'GF' and 'EB' is related to 'NP' in a certain way, to which of the following is 'AL' related to, following the same pattern ?
   (a) KD   (b) QV   (c) KL   (d) KV
   (e) DQ
89. What will come in place of question mark (?) in the following series based on the above alphabetical series?
   TE JU NK ? GH
   (a) IS   (b) IR   (c) AG   (d) AR
   (e) AM
90. If in a certain code 'GRIM' is coded as 'RMOS' and 'DUSK' is coded as 'LQPI' how will 'STOP' be coded in the same code language?
   (a) MJIS   (b) PJGB   (c) JPJIS   (d) MJGB
   (e) PGJB

Directions (Qs. 91-95) : *In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued.*

91. **Problem Figures**

Answer Figures

92. **Problem Figures**

Answer Figures

93. **Problem Figures**

Answer Figures

94. **Problem Figures**

Answer Figures

95. **Problem Figures**

Answer Figures

Directions (Qs. 96-100) : *In each of the following questions, there is a set of four figures called the Problem set followed by a set of five other figures labelled (a), (b), (c), (d) and (e) called the Answer set. One of the boxes in the Problem set contains a question mark. Select a suitable figure from the Answer set which will substitute this question mark so that a series is formed by the figures in the Problem set taken in order. The letter of the selected figure is the answer.*

96. **Problem Figures**

Answer Figures

(a)   (b)   (c)   (d)   (e)
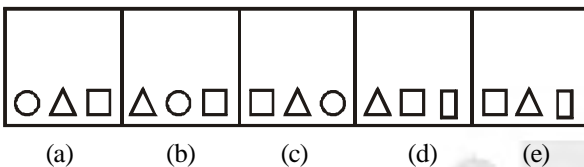
97. **Problem Figures**

Answer Figures

(a)   (b)   (c)   (d)   (e)

98. **Problem Figures**

Answer Figures

(a)   (b)   (c)   (d)   (e)

99. **Problem Figures**

Answer Figures

(a)   (b)   (c)   (d)   (e)
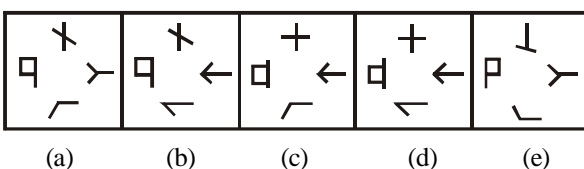
100. **Problem Figures**

Answer Figures

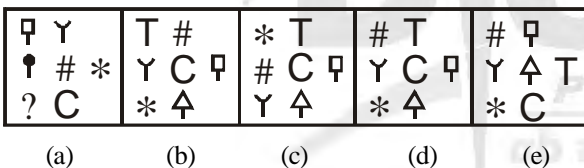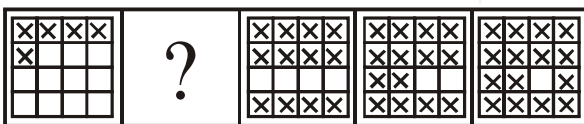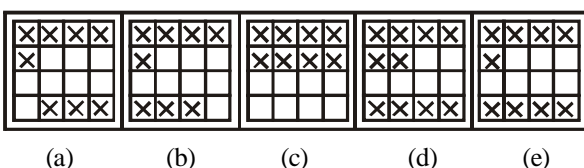(a)   (b)   (c)   (d)   (e)
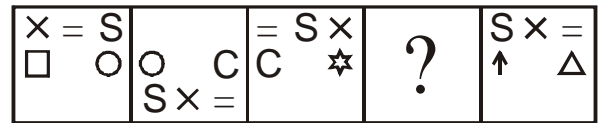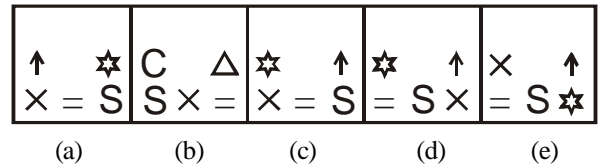
English Language

DIRECTIONS (Qs. 101-115) : *Read the following passage carefully and answer the questions given below it. Certain words/ phrases have been printed in bold to help you locate them while answering some of the questions.*

When times are hard, doomsayers are aplenty. The problem is that if you listen to them too carefully, you tend to overlook the most obvious signs of change. 2011 was a bad year. Can 2012 be any worse? Doomsday forecasts are the easiest to make these days. So let's try a contrarian's forecast instead.

Let's start with the global economy. We have seen a steady flow of good news from the US. The employment situation seems to be improving rapidly and consumer sentiment, reflected in retail expenditures on discretionary items like electronics and clothes, has picked up. If these trends sustain, the US might post better growth numbers for 2012 than the 1.5-1.8 percent being forecast currently.

Japan is likely to pull out of a recession in 2012 as post-earthquake reconstruction efforts gather momentum and the fiscal stimulus announced in 2011 begins to pay off. The consensus estimate for growth in Japan is a respectable 2 per cent for 2012.

The "hard-landing" scenario for China remains and will remain a **myth**. Growth might decelerate further from the 9 per cent that it expected to **clock** in 2011 but is unlikely to drop below 8-8.5 percent in 2012.

Europe is certainly in a spot of trouble. It is perhaps already in recession and for 2012 it is likely to post mildly negative growth. The risk of implosion has dwindled over the last few months - peripheral economies like Greece, Italy and Spain have new governments in place and have made progress towards genuine economic reform.

Even with some of these positive factors in place, we have to accept the fact that global growth in 2012 will be **tepid**. But there is a flipside to this. Softer growth means lower demand for commodities and this is likely to drive a correction in commodity prices. Lower commodity inflation will enable emerging market central banks to reverse their monetary stance. China, for instance, has already reversed its stance and has pared its reserve ratio twice. The RBI also seems poised for a reversal in its rate cycle as headline inflation seems well on its way to its target of 7 per cent for March 2012.

That said, oil might be an exception to the general trend in commodities. Rising geopolitical tensions, particularly the

continuing face-off between Iran and the US, might lead to a spurt in prices. It might make sense for our oil companies to hedge this risk instead of buying oil in the spot market.

As inflation fears **abate** and emerging market central banks begin to cut rates, two things could happen Lower commodity inflation would mean lower interest rates and better credit availability. This could set a floor to growth and slowly reverse the business cycle within these economies. Second, as the fear of untamed, runaway inflation in these economies abates, the global investor's comfort levels with their markets will increase.

Which of the **emerging** markets will outperform and who will get left behind? In an environment in which global growth is likely to be weak, economies like India that have a powerful domestic consumption dynamic should lead; those dependent on exports should, prima facie, fall behind. Specifically for India, a fall in the exchange rate could not have come at a better time. It will help Indian exporters gain market share even it global trade remains depressed. More importantly, it could lead to massive import substitution that favours domestic producers.

Let's now focus on India and start with a caveat. It is important not to confuse a short-run cyclical dip with a permanent de-rating of its long-term structural potential. The arithmetic is simple. Our growth rate can be in the range of 7-10 per cent depending on policy action. Ten per cent if we get everything right, 7 per cent if we get it all wrong. Which policies and reforms are critical to taking us to our 10 per cent potential ? In judging this, let's again be careful. Lets not go by the laundry list of reforms that FIIs like to wave: increase in foreign equity limits in foreign shareholding, greater voting rights tor institutional shareholders in banks, FDI in retail, etc. These can have an impact only at the margin. We need not bend over backwards to appease the FIIs through these reforms - they will invest in our markets when momentum picks up and will be the first to exit when the momentum flags, reforms or not.

The reforms that we need are the ones that can actually raise out. Sustainable long-term growth rate. These have to come in areas like better targeting of subsidies, making projects in infrastructure viable so that they **draw** capital, raising the productivity of agriculture, improving healthcare and education, bringing the parallel economy under the tax net, implementing fundamental reforms in taxation like GST and the direct tax code and finally easing the **myriad** rules and regulations that make doing business in India such a nightmare. A number of these things do not require new legislation and can be done through executive order.

101. Which of the following is NOT TRUE according to the passage ?
    (a) China's economic growth may decline in the year 2012 as compared to the year 2011
    (b) The European economy is not doing very well
    (c) Greece is on the verge of bringing about economic reforms
    (d) In the year 2012, Japan may post a positive growth and thus pull out of recession
    (e) All are true

102. Which of the following will possibly be a result of softer growth estimated for the year 2012 ?
    (A) Prices of oil will not increase.
    (B) Credit availability would be lesser.
    (C) Commodity inflation would be lesser.
    (a) Only (B)   (b) Only (A) and (B)
    (c) Only (A) and (C)   (d) Only (C)
    (e) All (A), (B) and (C)

103 Which of the following can be said about the present status ol the US economy ?
    (a) There is not much improvement in the economic scenario of the country from the year 2011
    (b) The growth in the economy of the country, in the year 2012, would definitely be lesser than 1.8 percent
    (c) The expenditure on clothes and electronic commodities, by consumers, is lesser than that in the year 2011
    (d) There is a chance that in 2012 the economy would do better than what has been forecast
    (e) The pace of change in the employment scenario of the country is very slow.

104. Which of the following is possibly the most appropriate title for the passage ?
    (a) The Economic Disorder
    (b) Indian Economy Versus The European Economy
    (c) Global Trade
    (d) The Current Economic Scenario
    (e) Characteristics of The Indian Economy

105. According to the author, which of the following would characterize Indian growth scenario in 2012 ?
    (A) Domestic producers will take a hit because of depressed global trade scenario.
    (B) On account of its high domestic consumption, India will lead.
    (C) Indian exporters will have a hard time in gaining market share.
    (a) Only (B)   (b) Only (A) and (B)
    (c) Only (B) and (C)   (d) Only (A)
    (e) All (A), (B) and (C)

106. Why does the author not recommend taking up the reforms suggested by FII's ?
    (a) These will bring about only minor growth
    (b) The reforms suggested will have no effect on the economy ol our country, whereas will benefit the FII's significantly
    (c) The previous such recommendations had backfired
    (d) These reforms will be the sole reason for our country's economic downfall
    (e) The reforms suggested by them are not to be trusted as they will not bring about any positive growth in India

107. Which of the following is TRUE as per the scenario presented in the passage?
    (a) The highest growth rate that India can expect is 7 percent
    (b) The fall in the exchange rate will prove beneficial to India
    (c) Increased FDI in retail as suggested by Flls would benefit India tremendously
    (d) The reforms suggested by the author require new legislation in India
    (e) None is true

108. According to the author, which ot the following reform/s is/ are needed to ensure long term growth in India?
    (A) Improving healthcare and educational facilities.
    (B) Bringing about reforms in taxation.
    (C) Improving agricultural productivity.
    (a) Only (B)   (b) Only (A) and (B)
    (c) Only (B) and (C)   (d) Only (A)
    (e) All (A), (B) and (C)

DIRECTIONS (Qs. 109-112) : *Choose the word/group of words which is most similar in meaning to the word/group of words printed in bold as used in the passage.*

109. **DRAW**
    (a) entice   (b) push
    (c) decoy   (d) attract
    (e) persuade
110. **CLOCK**
    (a) watch   (b) achieve
    (c) time   (d) second
    (e) regulate
111. **ABATE**
    (a) rise   (b) gear
    (c) hurl   (d) lessen
    (e) retreat
112. **EMERGING**
    (a) raising   (b) developing
    (c) noticeable   (d) conspicuous
    (e) uproaring

DIRECTIONS (Qs. 113-115) : *Choose the word/group of words which is most opposite in meaning to the word/group of words printed in bold as used in the passage.*

113. **MYRIAD**
    (a) trivial   (b) difficult
    (c) few   (d) effortless
    (e) countless
114. **TEPID**
    (a) moderate   (b) high
    (c) warm   (d) irregular
    (e) little
115. **MYTH**
    (a) reality   (b) belief
    (c) contrast   (d) idealism
    (e) falsehood

Directions (116-120) : Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

(A) It is a general term used to describe over 200 individual diseases.
(B) The abnormal cells grow with-out any control, invade through normal tissue barriers and reproduce indefinitely.
(C) The word "cancer" comes from Latin, meaning a crab.
(D) These characteristics include development within any tissue of a malignant growth.
(E) A tumor was called cancer because of swollen veins around the area resembling a crab's limb.
(F) These disease's progress differently over a period of time and share certain characteristics.

116. Which of the following should be the SECOND sentence after rearrangement ?
    (a) A   (b) B   (c) C   (d) D
    (e) E
117. Which of the following should be the THIRD sentence after rearrangement ?
    (a) A   (b) B   (c) C   (d) D
    (e) E
118. Which of the following should be the FOURTH sentence after rearrangement ?
    (a) A   (b) B   (c) C   (d) D
    (e) E
119. Which of the following should be the FIFTH sentence after rearrangement ?
    (a) A   (b) B   (c) C   (d) D
    (e) None of these
120. Which of the following should be the SIXTH (LAST) sentence after rearrangement ?
    (a) A   (b) B   (c) C   (d) D
    (e) None of these

Directions (121-130) : In the following passage, there are blanks. Each, of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which Fits the blank appropriately. Find out the appropriate word in each case.

New technology has led directly to **(121)** standards of living yet science tends to follow market forces as well as to **(122)** them, It is not surprising that the rich get richer in a continuing cycle of **(123)** while the poorest are often left behind. A special **(124)** should be made by the powerhouses of world science to address the un met the challenges of the poor. Ending **(125)** poverty can relieve many of the pressures on the environment. When impoverished households are **(126), (127)** on their farms, for example, they face less pressure to cut down neighboring forests in **(128)** of new farmland. Still, even as extreme poverty ends, we must not fuel prosperity with a lack of **(129)** for industrial pollution and the **(130)** burning of fossil fuels.

121. (a) Visible   (b) Declining
    (c) Improved   (d) Amicable
    (e) Rigorous
122. (a) Fail   (b) Claim
    (c) Market   (d) Avoid
    (e) Lead
123. (a) Wealth   (b) Growth
    (c) Poverty   (d) Improvement
    (e) Economy
124. (a) Effort   (b) Care
    (c) Practice   (d) Occasion
    (e) Sanction
125. (a) Marginal   (b) Apparent
    (c) Superficial   (d) Extreme
    (e) Dismal
126. (a) Abnormally   (b) Less
    (c) More   (d) Excessively
    (e) Unreasonably

127. (a) Efficient   (b) Meticulous
    (c) Careful   (d) Dependent
    (e) Productive
128. (a) View   (b) Search
    (c) Expectation   (d) Lust
    (e) Place
129. (a) Attitude   (b) Mobility
    (c) Initiative   (d) Concern
    (e) Ease
130. (a) Unchecked   (b) Repeated
    (c) Periodical   (d) Occasional
    (e) Limited

Directions (131-135) : In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers (a), (b), (c), (d) and (e). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make the sentence grammatically correct and meaningfully complete.

131. Liberalization has removed all the legalities ………. And ………….. Floodgates to multinational companies.
    (a) Hurdles …………. Awarded
    (b) Barrier ………… Opened
    (c) Obstacles ……….. Guarded
    (d) Manipulation ………. Closed
    (e) Battles …………. Threw

132. The ………. On some of the towns has created …….. Among the residents of the other part of the country.
    (a) Attack ………….. Ambition
    (b) Raid ………. Awareness
    (c) Bombardment ……… Panic
    (d) Spell ……….. Satisfaction
    (e) Shower …………. Dampness

133. …………. to the popular belief that every astrologer nurtures blind faith in fate, our astrologer believes in
    (a) Contrary …….. Action
    (b) According ………. Thoughts
    (c) Bowing …………… Present
    (d) Proving …………. Forecasting
    (e) Pointing ………….. Devotion

134. His ……….. Has yielded him the …………. Fruit.
    (a) Fate ……… Undesirable
    (b) Efforts …….. Unwanted
    (c) Action ………. Viable
    (d) Perseverance …………… Desired
    (e) Emphasis ……. Expected

135. His ………… Contribute to the Tsunami relief fund was …………. By his staff members.
    (a) Meager ………… Admired
    (b) Spontaneous ………… Nullified
    (c) Negligible ………… Sanctioned
    (d) Noteworthy ………… Improved
    (e) Generous ………… Appreciated

Direction (136 - 140): which of the phrase A, B, C, D is given below each sentence should replace the phrase printed in bold in the sentence to make it grammatically correct? If the sentence is Correct as it is given and no correction required mark E as the answer.

136. Although scared of heights, **she gather all her courage** and stood a top the 24-storied building to participate the activities.
    (a) gathered all her courage
    (b) gathered all courageous
    (c) gather all courageous
    (d) is gathered all courage
    (e) mo correction required

137. Naturally, with everything **gone so well** for them, it was time for celebration,
    (a) go so well   (b) going so well
    (c) gone as well   (d) going as well
    (e) No correction required

138. The ban was imposed by state's commercial taxes department last Friday after protests by a certain community, which **had threat to burn** cinema screening the controversial movies.
    (a) had threat to burning
    (b) had throated to burn
    (c) had threatened to burn
    (d) had threatened to burning
    (e) No correction required

139. Rakesh, an avid football player who captained his team in school and colleges, **will inaugurate** the match tomorrow in Pune.
    (a) will be inaugurate   (b) is inauguration
    (c) will inaugurating   (d) is inaugurate
    (e) No correction required

140. At a musical night organized for them, the artistic side of the doctors **came as forward**., as they, sang beautifully and made the evening truly memorable.
    (a) come forward   (b) come to the fore
    (c) cane to the forth   (d) came to the fore
    (e) No correction required

Directions (Qs. 141-145) : Below is given a single word with options to its meaning in different contexts. You have to select all those options which are synonyms of the word when the context is changed. Select the correct alternatives from (a), (b), (c), (d) & (e) which represent all those synonyms.

141. **HAMPER**
    (1) Prevent   (2) A large basket
    (3) A gift   (4) A laundry
    (a) 1, 2   (b) 2, 4   (c) 3, 1   (d) 1, 4
    (e) 4, 3

142. **DENT**
    (1) Tooth of Gearwheel   (2) Sleaze
    (3) Depression   (4) Penetration
    (a) 1, 4   (b) 2, 4   (c) 3, 1   (d) 1, 2
    (e) 4, 3

143. **STRIKE**
    (1) Military Attack   (2) Discover
    (3) Lockout   (4) Snap
    (a) 1, 2, 4   (b) 2, 4   (c) 3, 1   (d) 1, 4
    (e) 4, 3

144. **GLANCE**
    (1) A quick look   (2) Scan
    (3) Review   (4) Reflect
    (a) 1, 2, 3   (b) 1, 2   (c) 2, 1, 4   (d) 2, 3, 4
    (e) All of (1), (2), (3), (4)

145. **CARRIAGE**
(1) Bearing
(2) Transportation
(3) a fee charged for transportation
(4) A machine
(a) 1, 3, (b) 2, 3 (c) 3, 4 (d) 1, 2, 3
(e) All of (1), (2) (3) , (4)

DIRECTIONS (Qs. 146-150) : *The following questions consist of a single sentence with one blank only. You are given six words denoted by A, B, C, D, E & F as answer choices and from the six choices you have to pick two correct answers, either of which will make the sentence meaningfully complete.*

146. _____ before the clock struck 8 on Saturday night, India Gate was swamped with people wearing black tee-shirts and holding candles.
(A) Minutes   (B) Time
(C) Later   (D) Quickly
(E) Since   (F) Seconds
(a) (B) and (E)   (b) (A) and (C)
(c) (A) and (F)   (d) (B) and (D)
(e) (C) and (E)

147. The Stales should take steps to _____ the process of teachers" appointments as the Centre has already sanctioned six lakh posts.
(A) fasten   (B) move
(C) hasten   (D) speed
(E) early   (F) quicken
(a) (D) and (F)   (b) (A) and (C)
(c) (C) and (F)   (d) (D) and (E)
(e) (B) and (D)

148. A senior citizen's son _____ threatened her every day and physically harmed her, forcing her to transfer her properly to him.
(A) superficially   (B) mistakenly
(C) allegedly   (D) miserably
(E) doubtfully   (F) purportedly
(a) (C) and (F)   (b) (A) and (E)
(c) (C) and (E)   (d) (D) and (F)
(e) (A) and (C)

149. Medical teachers said that the management had continued to remain _____ to their cause leading to the stretching of their strike.
(A) unmoved   (B) lethargic
(C) unconcerned   (D) apathetic
(E) indifferent   (F) bored
(a) (B) and (C)   (b) (C) and (F)
(c) (A) and (E)   (d) (A) and (D)
(e) (D) and (E)

150. The parents had approached the high court to _____ the government order after their children, who passed UKG, were denied admission by a school.

(A) void   (B) quash
(C) annual   (D) stay
(E) lift   (F) post
(a) (A) and (D)   (b) (B) and (C)
(c) (C) and (E)   (d) (E) and (F)
(e) (C) and (D)

151. The standard protocol of the Internet is _____.
(a) TCP/IP   (b) Java
(c) HTML   (d) Flash
(e) None of these

152. A _____ is a computer attached to the Internet that runs a special Web server software and can send Web pages out to other computers over the Internet
(a) web client   (b) web system
(c) web page   (d) web server
(e) None of these

153. After a user has saved and deleted many files, many scattered areas of stored data remain that are too small to be used efficiently, causing_____.
(a) disorder   (b) turmoil
(c) disarray   (d) fragmentation
(e) None of these

154. Which of the following is the communications protocol that sets the standard used by every computer that accesses Web-based information?
(a) XML   (b) DML
(c) HTTP   (d) HTML
(e) None of these

155. Which of the following converts all the statements in a program in a single batch and the resulting collection of instructions is placed in a new file?
(a) compiler   (b) interpreter
(c) converter   (d) instruction
(e) None of these

156. A program that generally has more user-friendly interface than a DBMS is called a
(a) front end   (b) repository
(c) back end   (d) form
(e) None of these

157. When you install a new program on your computer, it. Is typically added to the _____menu.
(a) All Programs   (b) Select Programs
(c) Start Programs   (d) Desktop Programs
(e) None of these

158. Which of the following contains information about a single "entity" in the database like a person, place, event, or thing?
(a) query   (b) form
(c) record   (d) table
(e) None of these

159. Which of the following is NOT a goal of transaction processing system?
(a) To capture, process and store transactions
(b) To produce a variety of documents related to routine business activities

(c) To reduce manual efforts associated with processing business transactions

(d) To produce standard reports used for management decision making

(e) None of these

160. A proxy server is used for which of the following?
(a) To provide security against unauthorized users
(b) To process client requests for web pages
(c) To process client requests for database access
(d) To provide TCP/IP
(e) None of these

161. When data changes in multiple lists and all lists are not updated, this causes
(a) data redundancy   (b) information overload
(c) duplicacy data   (d) data inconsistency
(e) None of these

162. The code that relational database management systems use to perform their database task is referred to as
(a) QBE   (b) SQL
(c) OLAP   (d) Sequel Server
(e) None of these

163. The purpose of the primary key in a database is to
(a) unlock the database
(b) provide a map of the data
(c) uniquely identify a record
(d) establish constraints on database operations
(e) None of these

164. Terminals (formerly known as cash registers) are often connected to complex inventory and sales computer systems.
(a) Data   (b) Sales
(c) Query   (d) Point-of-sale (POS)
(e) None of these

165. System software is a set of programs that enables your computer's hardware devices and _____software to work together.
(a) management   (b) processing
(c) utility   (d) application
(e) None of these

166. The capability of an operating system to enable two or more than two programs to execute simultaneously in a single computer system by using a single processor is called
(a) Multiprocessing   (b) Multitasking
(c) Multiprogramming (d) Multiexecution
(e) None of these

167. State whether the following statement is True or False for cache memory.
(i) Cache memories are high-speed buffers which are inserted between the processors and main memory.
(ii) They can also be inserted between main memory and mass storage.
(iii) It can be used as secondary memory.
(a) i- True, ii- False, iii-True
(b) i- False, ii- True, iii-True
(c) i-True, ii-True, iii-False
(d) i- False, ii- False, iii-True
(e) None of these

168. A small program which loads OS into the memory is called as _____
(a) ROM   (b) bootstrap loader
(c) BIOS   (d) RAM
(e) None of these

169. As OS program module that selects the next job to be admitted for execution is called as _____.
(a) scheduler   (b) compiler
(c) throughput   (d) dispatcher
(e) None of these

170. Semaphore can be used for solving _____
(a) wait & signal   (b) deadlock
(c) synchronization (d) priority
(e) None of these

171. On what principle does Distributed OS work?
(a) File foundation   (b) Single system image
(c) Multi system image (d) Networking image
(e) None of these

172. Which of the following is not a jump statement in C++?
(a) break   (b) Goto
(c) Exit   (d) Switch
(e) None of these

173. C++ exception handling mechanism mainly uses how many keywords?
(a) Four   (b) Three
(c) Two   (d) One
(e) None of these

174. After defining the function template, the next step to call it in another function such as _____.
(a) int()   (b) secondary()
(c) template()   (d) main()
(e) None of these

175. _____ are one of the attributes of C++ that support run-time polymorphism.
(a) Pointers   (b) Derived classes
(c) Virtual functions (d) Heap tree
(e) None of these

176. To increase the value of c by one, which of the following is wrong?
(a) c++;   (b) c=c+1;
(c) c+1=>c;   (d) c+=1;
(e) None of these

177. Which of the following is a keyword is used for storage class?
(a) printf   (b) external
(c) auto   (d) scanf
(e) None of these

178. File manipulation functions in C are available in which header file?
(a) streams.h   (a) stdio.h
(c) stdlib.h   (d) files.h
(e) None of these

179. _____is the collection of memory structures and Oracle background processes that operates against an Oracle database.
(a) Database   (b) Instance
(c) Tablespace (d) Segment
(e) None of these

180. A _____ is a logical grouping of database objects, usually to facilitate security, performance, or the availability of database objects such as tables and indexes.
    (a) tablespace   (b) segments
    (c) extents   (d) blocks
    (e) None of these

181. _____ is the smallest unit of allocation in an Oracle database.
    (a) Database   (b) Instance
    (c) Tablespace   (d) Database Block
    (e) None of these

182. An Oracle _____ is a set of tables and views that are used as a read-only reference about the database.
    (a) Database dictionary (b) Dictionary table
    (c) Data dictionary   (d) Dictionary
    (e) None of these

183. An Oracle object type has two parts the _____ and _____.
    (a) Instance and body
    (b) Segment and blocks
    (c) Specification and body
    (d) Body and segment
    (e) None of these

184. By, default, Oracle object types are _____
    (a) INSTANTIABLE   (b) NOT INSTANTIABLE
    (c) FINAL   (d) OVERRIDING
    (e) None of these

185. A method modifier tells Oracle that new subtypes may not override a method is called _____.
    (a) INSTANTIABLE   (b) NOT INSTANTIABLE
    (c) FINAL   (d) OVERRIDING
    (e) None of these

186. The E-R model is expressed in terms of
    I. Entities
    II. The relationship among entities.
    III. The attributes of the entities.
    IV. Functional relationship.
    (a) I,II   (b) I,II, IV
    (c) II,II,IV   (d) I,II,IV
    (e) none of these

187. Representation of data structure in memory is known as:
    (a) recursive   (b) abstract data type
    (c) storage structure   (d) file structure
    (e) none of these

188. If the address of A[1][1] and A[2][1] are 1000 and 1010 respectively and each element occupies 2 bytes then the array has been stored in _____ order.
    (a) row major   (b) column major
    (c) matix major   (d) All of the above
    (e) none of these

189. An adjacency matrix representation of a graph cannot contain information of :
    (a) nodes   (b) edges
    (c) direction of edges   (d) parallel edges
    (e) none of these

190. An ADT is defined to be a mathematical model of a user-defined type along with the collection of all _____ operations on that model.
    (a) Cardinality   (b) Assignment
    (c) Primitive   (d) Structured
    (e) none of these

191. De Morgan's second therm says that NAND gate is equivalent to a bubbled _____ gate.
    (a) AND   (b) XAND
    (c) XOR   (d) OR
    (e) None of these

192. What logic function is produced by adding an inverter to each input and the output of an AND gate?
    (a) NAND   (b) NOR
    (c) OR   (d) XOR
    (e) None of these

194. When a transistor is cut off or saturated, transistor _____ have almost no effect
    (a) Wave   (b) Variations
    (c) Stage   (d) Circuits
    (e) None of the above

195. Express -7 as 16-bit signed binary numbers.
    (a) 0000 0000 0000 0111
    (b) 1000 0000 0000 0111
    (c) 0111 0000 0000 0001
    (d) 0111 0000 0000 0000
    (e) None of the above

196. Which transport class should be used with a perfect network layer ?
    (a) TP0 and TP2   (b) TP1 and TP3
    (c) TP0, TP1, TP3   (d) TP0, TP1, TP2, TP3, TP4
    (e) None of these

197. The main objective of designing various modules of a software system is :
    (a) To decrease the cohesion and to increase the coupling
    (b) To increase the cohesion and to decrease the coupling
    (c) To increase the coupling only
    (d) To increase the cohesion only
    (e) None of these

198. Three essential components of a software project plan are :
    (a) Team structure, Quality assurance plans, Cost estimation
    (b) Cost estimation, Time estimation, Quality assurance plan
    (c) Cost estimation, Time estimation, Personnel estimation
    (d) Cost estimation, Personnel estimation, Team structure
    (e) None of these

199. The term 'hacker' was originally associated with :
    (a) A computer program
    (b) Virus
    (c) Computer professionals who solved complex computer problems.
    (d) All of the above
    (e) None of these

200. Reliability of software is dependent on :
    (a) Number of errors present in software
    (b) Documentation
    (c) Testing suties
    (d) Development Processes

    (e) None of these

OR

Professional Knowledge: Marketing

151. Analysis of marketing problem helps in
    (a) Evaluating marketing opportunities
    (b) Reducing marketing staff
    (c) Reducing profits
    (d) Good communication
    (e) Motivation
152. Leads for industrial loans can be obtained from
    (a) Reserve bank of India
    (b) District industrial centers
    (c) colleges
    (d) Export houses
    (e) Trade centers
153. Customization result in _____.
    (a) Customer exodus
    (b) Customer retention
    (c) Customer complaints
    (d) Training of staff
    (e) varying the interest rates
154. Advertisements are necessary for _____.
    (a) only old products
    (b) launching new products
    (c) only costly products
    (d) only obsolete products
    (e) advertisements are wasteful expenses
155. A Master policy in the case of Life insurance indicates_____.
    (a) policy is sale
    (b) policy is in the name of servant
    (c) only one life is assured
    (d) there are several beneficiaries
    (e) life assured should be a male
156. Financial inclusion needs canvassing the accounts of _____.
    (a) Financial Institutions
    (b) NRIs
    (c) HNIs
    (d) Housewives
    (e) Persons below a specified income level
157. Effective retail banking presupposes_____.
    (a) Large Premises
    (b) Huge kiosks
    (c) big sales force
    (d) coordination between marketing and front office staff
    (e) More products
158. A theory states that no matter how efficiently goods / services are produced, if they cannot be delivered to the customer in the quickest possible time it is vain.

This theory is called
    (a) Quickest the best   (b) Instant service
    (c) Service on time   (d) Timely effort
    (e) None of these
159. In India, which commission can be approached to curb misleading advertisements
    (a) MRTP   (b) MTP
    (c) ISPT   (d) QTP
    (e) None of these
160. "Consumer purchases are strongly influenced by the internal psychological and personal characteristics and external social and environmental influences". This statement is _____.
    (a) True   (b) False
    (c) False for external environment
    (d) True for external environment only
    (e) Can't say
161. Importance of marketing has increased in the recent years due to which of the following.
    (a) Consumer experiencing wide choices of goods and services
    (b) Availability of information to consumer about goods and services
    (c) Customised and target communications and offerings
    (d) All the above
    (e) None of these
162. _____ comprises the process of developing and maintaining a portfolio of products that satisfy the needs of the customers from different segments:
    (a) Product mix
    (b) Product planning
    (c) Product marketing
    (d) Product manufacturing
    (e) None of these
163. Business of a bank is increasing, but increase of business of other banks is higher than the increase in the business of the concerned bank. The result would be:
    (a) Lowering of profits
    (b) Lowering of business turnover
    (c) Lowering of market price
    (d) Increase in market share
    (e) All of the above
164. In India which among the following determines the prices of banking products:
    (a) Government of India
    (b) Reserve Bank of India
    (c) Policy formulation by IBA
    (d) Policy formulation by Boards of concerned banks
    (e) All of the above
165. Which of the following actions on the part of the marketing channels is a part of market information?
    (a) Gather information about current customers
    (b) Gather information about potential customers
    (c) Gather information about competitors
    (d) Disseminate the information to producer
    (e) All of the above

166. A bank makes use of certain other persons on hire basis for marketing of bank services. This process is called:
   (a) Direct sale agents
   (b) Direct marketing agents
   (c) Direct representatives
   (d) Outsourcing of financial services
   (e) All of the above

167. A bank offers discount coupons to the customers availing consumer loans from the bank. Which of the following kinds of marketing mix is it?
   (a) Direct marketing (b) Personal selling
   (c) Advertising (d) Public relation
   (e) Sales promotion

168. While taking a decision on 'brand extension decision' main factor to be considered are:
   (a) Value perception from the point of view of customer
   (b) Advantage of the product over the nearest competitors
   (c) Quantity of sales
   (d) None of the above
   (e) Both (a) & (b)

169. Major functions of a bank marketing management are to systematically manage the process of which of the following:
   (a) Collection of information
   (b) Evaluation of information
   (c) Disseminating market information
   (d) All of the above
   (e) Both (b) & (c)

170. Which of the following is not a factor makes the MIS important in the present day environment?
   (a) Information explosion
   (b) Communication gap
   (c) Prompt decision making
   (d) Non-price competition
   (e) None of the above

171. Which of the following is not a component of MIS?
   (a) Internal records system
   (b) Marketing research system
   (c) Market intelligence system
   (d) Marketing Management and science system
   (e) None of these

172. Marketing Information System is concerned with information relating to which of the following?
   (a) The computer hardware system used in handling the data base
   (b) The set of input and output reports to collate and purvey information
   (c) The structure of people, equipment and procedures for generating and processing the information
   (d) The software used for collecting and processing the information
   (e) All of the above

173. Which among the following generally does not come under Corporate Banking?
   (a) Structured Finance
   (b) Government Banking
   (c) FI, Capital Markets & Custodial Services
   (d) Debit Cards
   (e) None of these

174. Marketing is complex in Banks compared to other commercial concerns. Which among the following justifies this statement?
   (a) Bank Marketing is a service Marketing
   (b) The focus of the bank marketing is customer
   (c) The Bank marketing is doubly oriented
   (d) Banking products are intangible
   (e) None of these

175. Which of the following Bank India is known to be the first Indian Bank to adopt the concept of Market Segmentation?
   (a) Punjab National Bank (b) State Bank of India
   (c) ICICI Bank (d) Bank of Baroda
   (e) Canara Bank

176. Many banks offer Project Counseling in their products portfolio. Product counseling can be placed in which of the following product categories of Banks?
   (a) Deposits
   (b) International Banking
   (c) Consultancy
   (d) Advances
   (e) Guarantees

177. The best promotional tool in any marketing is
   (a) Pamphlets
   (b) Newsletters
   (c) Word of mouth publicity
   (d) Regional Advertisements
   (e) Viral marketing

178. One of the following is a target group for the marketing of Internet Banking.
   (a) All the customers
   (b) All the educated customers
   (c) All the computer educated customers
   (d) Only creditors
   (e) All of the above

179. A bank has a special product for senior citizens which provides cheque book on saving account with customer name on cheque book, free of cost debit card with over draft facility of Rs.15,000,a special pouch for holding passbook, cheque book and debit card, facility for withdrawal and deposits at any branch of the bank, free of cost remittances to any branch of the bank, and free cost remittances to any branch of another bank covered under RTGS facility. Which of the following is the core product in this offering?
   (a) Overdraft (b) Remittances
   (c) Saving Accounts (d) All of these
   (e) None of these

180. Market Segmentation helps in _____ .
   (a) Identifying the target gourp
   (b) Focussed marketing
   (c) Improved lead generation
   (d) Only (a) and (b)
   (e) All (a), (b) and (c)

181. The sequence of a sales process is _____ .
   (a) Lead generation, call, presentation and sale
   (b) Sale, presentation, Lead generation and call
   (c) Presentation, Lead generation, Sale and Call
   (d) Lead generation, Call, Sale and Presentation
   (e) There is no sequence required

182. 'Value -added services' means _____ .
    (a) Better value at a premium
    (b) Costlier services
    (c) Additional services
    (d) Better value at a discount
    (e) At a par services
183. Market segmentation is useful for _____.
    (a) Preferential marketing
    (b) Targeting existing clients
    (c) Identifying prospects
    (d) Knowing customers' tastes
    (e) All of the above
184. Banks sell insurance for
    (a) Increasing Deposits
    (b) Increasing Loans
    (c) Increasing Clients
    (d) Earning more profits
    (e) Taking over insurance companies
185. A form of distribution in which manufacturer makes an agreement, with a middleman in each market area stipulating that the distribution of the product within that is to be confined solely to that middleman is known as _____ .
    (a) Mass Distribution
    (b) Exclusive agency distribution
    (c) Selective distribution
    (d) Price Distribution
    (e) None of these
186. A situation where by market is expanded by developing new products to satisfy new consumer needs is called _____.
    (a) Market development
    (b) Diversification
    (c) Both (a) and (b)
    (d) Neither (a) nor (b)
    (e) None of these
187. In online marketing, there is _____.
    (a) No exchange
    (b) Exchange is the core of marketing
    (c) Guarantee
    (d) Only warranty
    (e) None of these
188. Market Segmentation can be resorted to by means of
    (a) segmenting by age
    (b) segmenting by income
    (c) segmenting geographically
    (d) All of these
    (e) None of these
189. The Target Group for Agricultural Loans is
    (a) any farmer
    (b) farm labourers
    (c) any individual dealing in agricultural or related activity
    (d) farmers' societies
    (e) None of these
190. The meaning of "Conversation" in terms of sales is
    (a) Designing new products
    (b) Converting Purchasers into sellers
    (c) Converting sellers into purchasers
    (d) Converting perspective customers into purchasers
    (e) Conversion of religion
191. A market where there are many sellers offering an identical product and where there is free entry to the market is known as -
    (a) Monopoly
    (b) Oligopoly
    (c) Perfect competition
    (d) Monopolistic competition
    (e) None of above
192. Which of the following is the best definition of a market?
    (a) A shopping center
    (b) An arrangement of buyers and sellers
    (c) An industry with many competitors
    (d) An industry that is not a monopoly
    (e) None of above
193. Marketing is a Social-economic activity because-
    (a) Marketing is related with Social Staisfaction
    (b) It is a Social Person
    (c) It is a Corporate Citizen
    (d) All of the above
    (e) None of these
194. Who is the Potential Customer of the Bank?
    (a) A Person who want to take loan from the Bank
    (b) A Staff of Bank
    (c) A Manager of Bank
    (d) Present Customer
    (e) None of these
195. The market analysis function includes-
    (a) Purchasing Power of Consumer
    (b) Consumer's Income
    (c) Study of teh market environment
    (d) All of these
    (e) None of these
196. Which is the branding of Bank?
    (a) Fixed deposits or Term deposits
    (b) Personal Loan
    (c) Mutual Fund
    (d) All of these
    (e) None of these
197. Marketing is important for bank customer, in which area-
    (a) Available of bank loan at fair rate of interest
    (b) Knowledge of banking's new product
    (c) Selling of Credit cards
    (d) All of the above
    (e) None of these
198. In Consumer-orientation, bank considered-
    (a) Bank customer's need
    (b) Bank customer's requirement
    (c) Bank customer's attitude
    (d) All of the above
    (e) None of these
199. What is after sale service of the bank?
    (a) To pay the loan
    (b) To provide Job
    (c) To make the payment after or on maturity of Fixed deposits
    (d) To provide loan
    (e) None of these
200. Which is not the concept of marketing?
    (a) Social marketing concept
    (b) Product disposal planning concept
    (c) Marketing concept
    (d) Product concept
    (e) None of these

OR

Professional Knowledge: Agriculture

151. An auction market in which participants buy and sell for delivery on a specified future date is called :
    (a) Commodity market (b) Contract market
    (c) Futures market (d) Open market
    (e) Cooperative market

152. India has been divided into how many principal cotton growing regions ?
    (a) Three (b) Two
    (c) Five (d) Four
    (e) Seven

153. The major agriculture land in India is under
    (a) Plantation crops (b) Food crops
    (c) Cash crops (d) oil seeds
    (e) None of these

154. Jhum cultivation is prevalent in
    (a) Manipur (b) Madhya Pradesh
    (c) Punjab (d) Haryana
    (e) Himachal Pradesh

155. Fishing is highly developed along the western coast of India as
    (a) The continental shelf along the western coast is not well developed
    (b) The continental shelf along the western coast is well pronounced
    (c) The continental slope along the western coast is well developed
    (d) The continental slope along the western coast is not well developed
    (e) None of these

156. Green Revolution in India has so far been the most successful in the case of
    (a) Rice and wheat (b) Tea and coffee
    (c) Wheat and potato (d) Mustard and Oilseeds
    (e) Cotton

157. Yellow Revolution is related to :
    (a) Pulses (b) Oilseeds
    (c) Meat (d) Vegetables
    (e) Flowers

158. Bikaneri Nerma Bt Cotton was developed at :
    (a) RAU, Bikaner (b) IARI, New Delhi
    (c) UAS, Dharwad (d) TNAU, Coimbatore
    (e) None of these

159. The herbicide Carfentrazone is used to control weeds in :
    (a) Wheat (b) Maize
    (c) Paddy (d) Cotton
    (e) Gram

160. Ajmer comes under which agroclimatic zone of Rajasthan ?
    (a) Semi-arid eastern plain
    (b) Flood prone eastern plain
    (c) Sub-humid southern plain
    (d) Irrigated north western plain
    (e) None of these

161. What is the recommended rate of application of the herbicide metsulfuron in wheat ?
    (a) 4 g/ha (b) 10 g/h
    (c) 16 g/ha (d) 22 g/ha
    (e) None of these

162. ICPL-87 is the variety of :
    (a) Green gram (b) Black gram
    (c) Gram (d) Pigeon pea
    (e) Maize

163. The safe limit of land slope in border irrigation method in medium loam soil is :
    (a) 0.05 - 0.20% (b) 0.20 - 0.40%
    (c) 0.40 - 0.60% (d) 0.60 - 0.80%
    (e) 0.20 - 0.35%

164. How much area of total area of transplanting is required for raising paddy nursery ?
    (a) 5% (b) 10%
    (c) 15% (d) 20%
    (e) 8%

165. Herbicide paraquat is recommended for the control of *cascuta* weed in
    (a) Berseem (b) Lucern
    (c) Oats (d) Barley
    (e) None of these

166. Which of these elements can partially substitute Molybdenum in nitrogen fixation by *Rhizohium* ?
    (a) Sodium (b) Silicon
    (c) Vanadium (d) Cobalt
    (e) None of these

167. The biofertilizer that can neither be cultured in the absence of living roots nor isolated on agar plate by standard microbiological technique is :
    (a) VAM (b) *Azospirillum*
    (c) *Azotobacter* (d) *Rhizobium*
    (e) None of these

168. For how many days 'Medium Range Weather Forecasting' is valid ?
    (a) 1-3 (b) 3-10
    (c) 10-15 (d) 15-21
    (e) 5-12

169. In dapog method of nursery raising of paddy, the seedlings are ready for transplanting in how many days ?
    (a) 8-10 (b) 12-14
    (c) 20-22 (d) 28-30
    (e) 15-20

170. The Agroforestry system involving crops + trees + pasture + animals is called :
    (a) Agri-silviculture (b) Silvi-pastoral
    (c) Agri-horticulture (d) Agri-silvipastoral
    (e) None of these

171. The optimum temperature for wheat germination is :
    (a) 25-27°C (b) 20-22°C
    (c) 15-17°C (d) 10-12°C
    (e) 23-25°C

172. Which of these elements is important in stabilizing various enzyme systems in plants ?
    (a) Nitrogen   (b) Phosphorus
    (c) Potassium   (d) Sulphur
    (e) Iron

173. The soils difficult to cultivate because of high expansion and contraction due to high clay content are classified as :
    (a) Vertisols   (b) Alfisols
    (c) Histosols   (d) Inceptisols
    (e) None of these

174. The nitrogen percentage in humus is about :
    (a) 4 - 4.5%   (b) 5 - 5.5%
    (c) 6 - 6.5%   (d) 7 - 7.5%
    (e) 6 - 6.9%

175. The gypsum equivalent or iron pyrite used for reclamation of sodic soils is :
    (a) 0.85   (b) 0.19
    (c) 1.29   (d) 0.63
    (e) 1.5

176. To transplant one hectare land, how many grams of brinjal seeds are sufficient ?
    (a) 500-700   (b) 1000-1200
    (c) 1500-2000   (d) 250-500
    (e) 700-900

177. The seed rate (kg/ha) of ladies finger for rainy season crop is about:
    (a) 10   (b) 15
    (c) 20   (d) 25
    (e) 13

178. 'Whip tail disease' of cauliflower is caused by the deficiency of :
    (a) Molybdenum   (b) Boron
    (c) Zinc   (d) Phosphorus
    (e) None of these

179. Which of these phosphides is used as bait to control rats ?
    (a) Alluminium phosphide
    (b) Calcium phosphide
    (c) Magnesium phosphide
    (d) Zinc phosphide
    (e) Iron phosphide

180. Khapra beetle is :
    (a) *Trogoderma granarium*
    (b) *Rhizopertha dominica*
    (c) *Sitotroga cereallela*
    (d) *Sitophylus granarium*
    (e) *None of these*

181. Which of these states of India suffers the most from the outbreak of locust ?
    (a) Madhya Pradesh   (b) Rajasthan
    (c) Uttar Pradesh   (d) Haryana
    (e) Punjab

182. Which of these statements is correct in relation to viroids?
    (a) These were discovered by Theodor Otto Diener.
    (b) They consist of small-circular coat.
    (c) Their RNA lack protein coat.
    (d) All the above statement are correct.
    (e) None of these

183. The _____content of rice plant and its susceptibility to blast disease are inversely related :
    (a) Zinc   (b) Silicon
    (c) Nitrogen   (d) Boron
    (e) Coppor

184. The fungicide 'Carbendazim' is a
    (a) Organophosphate   (b) Pyrimidine
    (c) Triazole   (d) Bensimidazole
    (e) None of these

185. Which disease is caused by *Sporisorium sorghi* in sorghum ?
    (a) Grain smut   (b) Head smut
    (c) Long smut   (d) Loose smut
    (e) Dense smut

186. Whip like black shoot is produced is sugarcane plant suffering from disease :
    (a) Smut   (b) Blight
    (c) Rust   (d) Rot
    (e) None of these

187. Genetic purity of seed means freedom of seeds from :
    (a) seeds of other crops (b) Inert material
    (c) Other variety seeds (d) Weed seeds
    (e) Mixed material

188. Random change in gene frequency due to sampling error is called :
    (a) Migration   (b) Mutation
    (c) Genetic drift   (d) Selection
    (e) None of these

189. What is the minimum isolation distance for production of certified seed of hybrid pearl-millet?
    (a) 200 m   (b) 300 m
    (c) 400 m   (d) 1000 m
    (e) 500 m

190. In case of poultry, the feed efficiency indicates:
    (a) Ratio of feed consumption to weight gained
    (b) Ratio of feed consumption to feeces passed
    (c) Ratio of feed consumption to total body weight
    (d) Ratio of feed consumption to number of eggs produced
    (e) None of these

191. 'Merino' breed of sheep is :
    (a) Mutton breed
    (b) Fine wool breed
    (c) Coarse carpet wool breed
    (d) Apparel wool breed
    (e) Normal wool breed

192. Which of these is not a milch breed of cow ?
    (a) Malvi   (b) Sahiwal
    (c) Red Sindhi   (d) Gir
   (e) Ganga tiri

193. Which of these is the most widely used cryoprotective agent for bull spermatozoa particularly for frozen semen ?
    (a) Fructose   (b) Glucose
    (c) Manose   (d) Glycerol
    (e) Sucrose

194. A situation of market in which supply is exactly equal to demand is termed as :
    (a) Equilibrium   (b) Stable
    (c) Volatile   (d) Unstable
    (e) None of these

195. India has been member of 'World Trade Organization' since:
    (a) 1-1-1995   (b) 1-1-1996
    (c) 1-1-1997   (d) 1-1-1998
    (e) 1-1-1994

196. In what proportion all the financial liabilities under National Agriculture Scheme is shared by central and state governments ?
    (a) 75 : 25   (b) 25 : 75
    (c) 50 : 50   (d) 80 : 20
    (e) 30 : 70

197. Which of these programmes fosters basic wage security ?
    (a) ATMA   (b) MREGA
    (c) JRY   (d) NAIP
    (e) SAIP

198. Which of the component of M.B. plough helps in inverting the furrow slice ?
    (a) Share   (b) Land side
    (c) Frog   (d) Mould board
    (e) Upper side

199. 'ATMA' was introduced in 2005-06 to address the constraints of :
    (a) CD   (b) T&V
    (c) GMF   (d) HYVP
    (e) None of these

200. Pusa ruby is a variety of _____
    (a) Brinjal   (b) Tomato
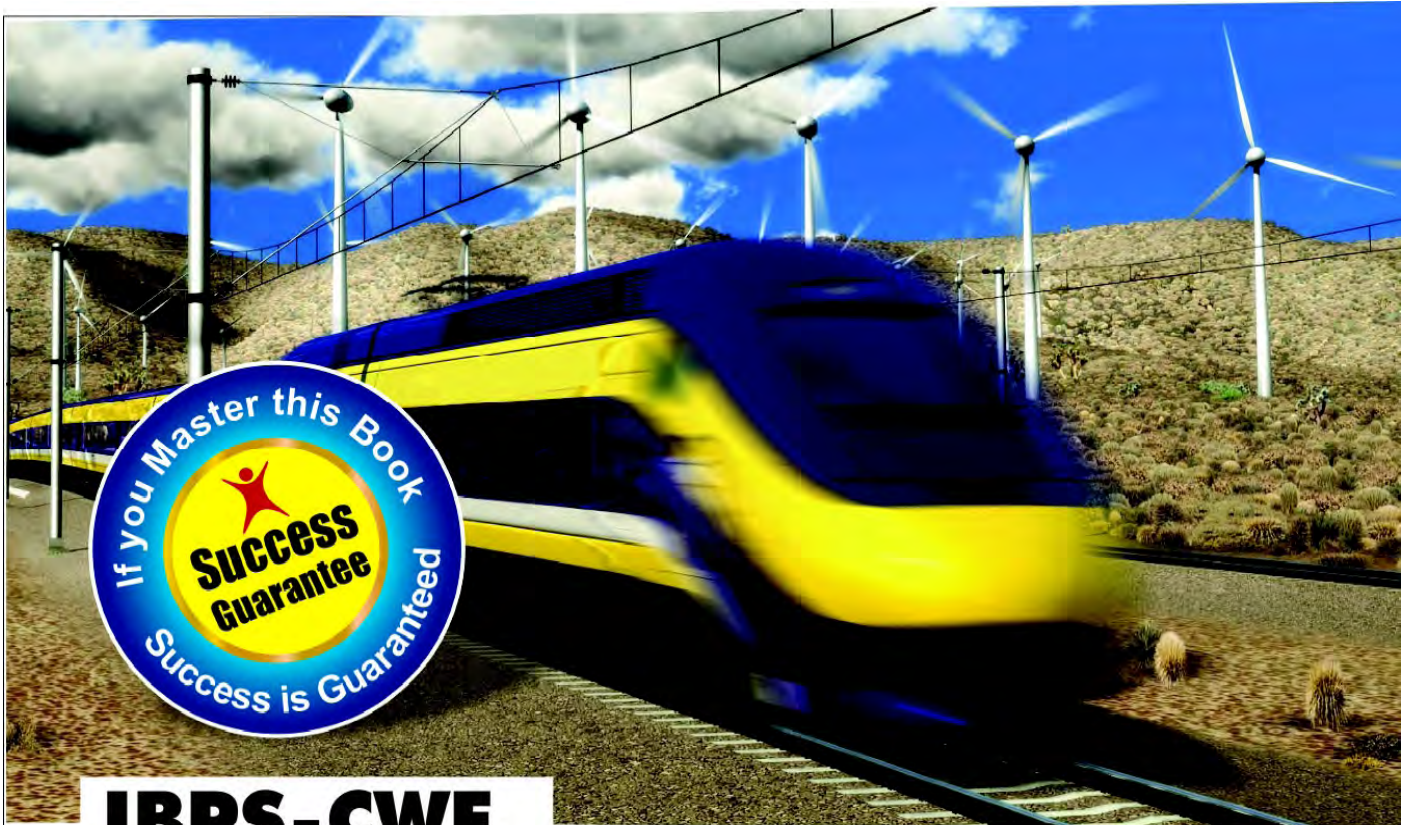   (c) Sngarcane   (d) Wheat
    (e) Rice

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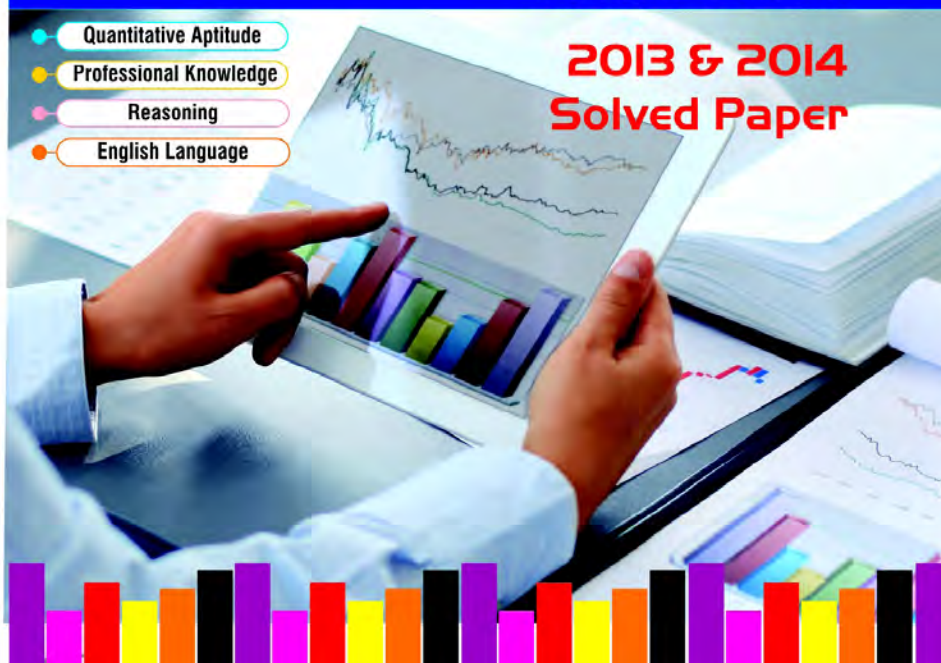
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