Numerical Ability

1. \((11.49)^4 = ?\)
   a) 15544  
   b) 16729  
   c) 17430  
   d) 18443  
   e) 19031

2. \((2198 - 1347 - 403) ÷ (159 - 113 - 27) = ?\)
   a) 15  
   b) 24  
   c) 37  
   d) 49  
   e) 53

3. \((825\% \text{ of } 330) ÷ 507 = ?\)
   a) 5  
   b) 11  
   c) 17  
   d) 23  
   e) 27

4. \(\sqrt{888888} \times 1.486 = ?\)
   a) 1200  
   b) 1000  
   c) 1600  
   d) 1400  
   e) 800

5. \(564.666 + 82.5091 \times 44.581 - 34.111 = ?\)
   a) 28450  
   b) 4000  
   c) 1600  
   d) 14225  
   e) 4210

Directions (Q. 6-10) Each question below is followed by two statements A and B. You are to determine whether the data given in the statement is sufficient for answering the question. You should use the data and your knowledge of Mathematics to choose between the possible answers.

Give answer (1) if the statement A alone is sufficient to answer the question, but the statement B alone is not sufficient.
Give answer (2) if the statement B alone is sufficient to answer the question, but the statement A alone is not sufficient.
Give answer (3) if both statements A and B together are needed to answer the question.
Give answer (4) if either the statement A alone or statement B alone is sufficient to answer the question.
Give answer (5) if you cannot get the answer from the statements A and B together, but need even more data.

6. Is A an odd number?
   A. A multiplied by an odd number is equal to an odd number.
   B. A is not divisible by 2.

7. The ages of Pradumn and Gunit are in the ratio of 7 : 5. What is the age of Pradumn?
   A. The ages of Pradumn and Nandini are in the ratio of 3 : 1.
   B. After 7 years the ratio of Pradumn’s and Aviral’s ages will be 4 : 3.

8. What is the salary of B, in a group of A, B, C and D whose average salary is Rs.62880?
   A. Total of the salary of A and C is exact multiple of 8.
   B. Average of the salary of A, C and D is Rs.61665.

9. What is the three digit number?
   A. The three digit number is divisible by 9.
   B. The 1st and 3rd digit is 6.

10. What is the profit earned by selling a printer for Rs.3000?
    A. The cost price of 6 such printers is equal to selling price of 5 such printers.
B. 20% profit is earned by selling each printer.

11. The product of two consecutive even numbers is 9408. Which is the greater of the two numbers?
   a) 96  
   b) 98  
   c) 94  
   d) 92  
   e) None of these

12. What is 27% of 36% of 5/9th of 4500?
   a) 239  
   b) 241  
   c) 243  
   d) 245  
   e) None of these

13. The simple interest accrued on an amount of Rs.40000 at the end of three years is Rs.12000. What would be the compound interest accrued on the same amount at the same rate in the same period?
   a) Rs.18765  
   b) Rs.15350  
   c) Rs.21555  
   d) Rs.13240  
   e) None of these

14. If the numerator of a fraction is increased by 300% and the denominator is increased by 100%. The resultant fraction is 1-11/19. What was the original fraction?
   a) 15/19  
   b) 13/19  
   c) 5/9  
   d) 4/9  
   e) None of these

15. 42 women can do a piece of work in 18 days. How many women would be required to do the same work in 21 days?
   a) 36  
   b) 24  
   c) 30  
   d) 44  
   e) None of these

16. The ages of Sulekha and Arunima are in the ratio of 9 : 8 respectively. After 5 years the ratio of their ages will be 10 : 9. What is the difference in years between their ages?
   a) 4 years  
   b) 5 years  
   c) 6 years  
   d) 7 years  
   e) None of these

17. By how much is 3/4th of 568 lesser than 7/8th of 1008?
   a) 444  
   b) 448  
   c) 455  
   d) 456  
   e) None of these

18. Which number should replace both the question marks in the following equation?
   \[ \frac{?}{191} = \frac{76}{?} \]
   a) 114  
   b) 116  
   c) 57  
   d) 176  
   e) None of these

19. Vishakha spent Rs.68357 on the renovation for her home, Rs.25675 on buying music system and the remaining 28% of the total amount she had as cash with her. What was the total amount?
   a) Rs.94032  
   b) Rs.36568  
   c) Rs.130600  
   d) Can’t be determined  
   e) None of these

20. Five-sixth of a number is 720. What will 45% of that number be?
   a) 346.6  
   b) 388.8  
   c) 392.2  
   d) 344.4  
   e) None of these

21. Kruti took a loan at simple interest rate of 6% in the first year with an increase of 0.5% in each subsequent year. She paid interest of Rs.3375 after four years. How much loan did she take?
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22. A 240 m long train takes 40 s longer to cross a platform twice its length than the time it takes to cross a pole at the same speed. What is the speed of the train?
   a) 6 m/s  
   b) 24 m/s  
   c) 48 m/s  
   d) 12 m/s  
   e) None of these

23. In how many different ways can the letters of the word ‘RIDDLED’ be arranged?
   a) 1680  
   b) 840  
   c) 2520  
   d) 5040  
   e) None of these

24. What would be the cost of building a fence around a circular plot of area 98.56 sq. feet, if the cost of fencing per foot is Rs.614?
   a) Rs.60515.84  
   b) Rs.30257.92  
   c) Rs.21612.80  
   d) Rs.43324.60  
   e) None of these

25. Michelle got married 9 years ago. Today her age is 1\(\frac{1}{3}\) times her age at the time of marriage. At present her daughter’s age is one-sixth of her age. What was her daughter’s age two years ago?
   a) 6 years  
   b) 7 years  
   c) 3 years  
   d) Can’t be determined  
   e) None of these

Directions (Q. 26-30) 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 (1) 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.
Give answer (2) 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.
Give answer (3) if the data either in Statement I alone or in Statement II alone are sufficient to answer the question.
Give answer (4) if the data in both the Statements I and II are not sufficient to answer the question.
Give answer (5) if the data in both the Statements I and II together are necessary to answer the question.

26. What is the two digit number?
   I. Difference between the two digits of the number is 9.
   II. The sum of the two digit is 9.

27. What is the area of the square?
   I. The measure of the side of the square is 21 cm.
   II. The perimeter of the square is 84 cm.

28. What is Seema’s age?
   I. Seema is half Reema’s age.
   II. Reema is 5 years younger than her sister.

29. In how many days can 10 men complete the piece of work?
   I. 12 women alone can complete the work in 16 days.
   II. 4 men and 6 women together can complete the work in 16 days.

30. What is the speed of the boat?
   I. The boat takes 4 hours to travel a distance of 12 km. down stream.
II. The boat takes 6 hours to travel a distance of 12 km. in still water.

31. How much part of a day is 45 min.?
   a) 1/42  
   b) 1/24  
   c) 1/32  
   d) 1/48  
   e) None of these

32. What is the greater of two numbers whose product is 640, if the sum of the two numbers exceeds their difference by 32?
   a) 45  
   b) 50  
   c) 55  
   d) 40  
   e) None of these

33. Samir drove at the speed of 45 km/hr from home to a resort. Returning over the same route, he got stuck in traffic and took an hour longer, also he could drive only at the speed of 40 km/hr. How many kilometres did he drive each way?
   a) 250 km  
   b) 300 km  
   c) 310 km  
   d) 275 km  
   e) None of these

34. 20 boys and 25 girls from a group of social workers. During their membership drive, the same number of boys and girls joined the group (e.g. if 7 boys joined, 7 girls joined). How many members does the group have now, if the ratio of boys to girls is 7 : 8?
   a) 75  
   b) 65  
   c) 70  
   d) 60  
   e) None of these

35. Vaishali spent Rs.31897 on the air conditioner for her home. Rs.38789 on buying plasma television and the remaining 23% of the total amount she had as cash with her. What was the total amount?
   a) Rs.74625  
   b) Rs.86750  
   c) Rs.91800  
   d) Can’t be determined  
   e) None of these

Directions (Q. 36-40) Study the following information carefully to answer the questions.

The teacher’s colony has 2800 members, out of which 650 members read only English newspaper, 550 members read only Hindi newspaper and 450 members read only Marathi newspaper. The number of members reading all the 3 newspapers is 100. Members reading Hindi as well as English newspaper are 200, 400 members read Hindi as well as Marathi newspaper and 300 members read English as well as Marathi newspaper.

36. Find the difference between number of members reading English as well as Marathi newspaper and the number of members reading English as well as Hindi newspaper?
   a) 300  
   b) 200  
   c) 100  
   d) 50  
   e) None of these

37. How many members read at least 2 newspapers?
   a) 600  
   b) 800  
   c) 500  
   d) 1000  
   e) None of these

38. Find the number of members reading Hindi newspaper?
   a) 750  
   b) 980  
   c) 1000  
   d) 1020  
   e) None of these

39. How many members read only one newspaper?
   a) 1560  
   b) 1650  
   c) 1640  
   d) 1540  
   e) None of these

40. Find the number of members reading no newspaper?
Reasoning Ability

41. In a certain code language ‘MADRAS’ is written as ‘DAMSAR’ how can ‘MUMBAI’ be written in that code language?
   a) BAIUMM  
   b) MUMIAB  
   c) IABMUM  
   d) MBIAUM  
   e) None of these

42. If in a certain code ‘INSTITUTION’ is written as ‘NOITUTITSNI’. How will ‘PERFECTION’ be written in that language?
   a) NOICTEFRP  
   b) NOITCEFEP  
   c) NOITCEFRPE  
   d) None of these

43. Seema’s younger brother Sohan is older than Seeta. Sweta is younger than Deepti but elder than Seema. Who is the eldest?
   a) Seema  
   b) Sweta  
   c) Seeta  
   d) Deepti  
   e) None of these

44. Rashmi is 14th from the right end in a row of 40 girls. What is her position from the left end?
   a) 25th  
   b) 27th  
   c) 21st  
   d) Can’t be determined  
   e) None of these

45. Ayush remembers that Sanjay’s birthday is certainly after January 12 but not later than 16th January. If Mehr remembers that Sanjay’s birthday is before 17th of January but not before 13th January. On which of the following day was Sanjay’s birthday?
   a) 14th  
   b) 15th  
   c) 16th  
   d) Either 14th or 15th  
   e) None of these

46. If ‘+’ means ‘÷’, ‘÷’ means ‘−’, ‘−’ means ‘×’ and ‘×’ means ‘+’, then 12 + 6 ÷ 3 − 2 × 8 = ?
   a) −2  
   b) 4  
   c) 2  
   d) 8  
   e) None of these

Directions (Q. 47-51) In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.

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

47. Statements:  
   L > M, M > N, N > P  
   Conclusions:  
   I. L > P  
   II. M > P

48. Statements:  
   A > B, B = H, H > G  
   Conclusions:  
   I. A > G  
   II. A > H
49. **Statements:**  
H < J, F < H, I ≤ J = K  
**Conclusions:**  
I. H > I  
II. I ≥ F  

50. **Statements:**  
A < B < C, ≤ D = E  
**Conclusions:**  
I. B ≤ E  
II. B < E  

51. **Statements:**  
P > M > Q, Q > Z > N  
**Conclusions:**  
I. M ≥ Z  
II. N < P  

**Directions (Q. 52-57)** In the following questions, the symbols ©, %, $ and @ are used with the following meaning as illustrated below.

- P © Q means P is either smaller than or equal to Q.
- P % Q means P is smaller than Q.
- P @ Q means P is equal to Q.
- P * Q means P is either greater than or equal to Q.
- P $ Q means P is greater than Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true?

**Give answer:**

(a) If only conclusion I is true  
(b) If only conclusion II is true  
(c) If either conclusion I or II is true  
(d) If neither conclusion I nor II is true  
(e) If both conclusion I and II are true

52. **Statements:**  
M % T, T $ K, K © D  
**Conclusions:**  
I. T $ D  
II. D $ M  

53. **Statements:**  
F @ B, B % N, N $ H  
**Conclusions:**  
I. N $ F  
II. H $ F  

54. **Statements:**  
R * M, M @ K, K © J  
**Conclusions:**  
I. J $ M  
II. J @ M  

55. **Statements:**  
B $ N, N * R, R @ K  
**Conclusions:**  
I. K © N  
II. B $ K  

56. **Statements:**  
J © K, K $ N, N * D  
**Conclusions:**  
I. J % N  
II. D % K  

57. **Statements:**  
R @ D, D © M, M $ T  
**Conclusions:**  
I. T % D  
II. M * R  

58. Neelam, who is Rohit’s daughter, says to Indu, your mother Reeta is the younger sister of my father, who is third child of Sohanji. How is Sohanji related to Indu?  
(a) Maternal Uncle  
(b) Father  
(c) Grandfather  
(d) Father-in-law  
(e) None of these

59. If ‘A × D’ means ‘A is sister of D’, ‘A + D’ means ‘D is the daughter of A’ and ‘A ÷ D’ means ‘A is the mother of D’, then how will ‘N is the aunt of M’ be denoted?  
(a) M + L × N  
(b) M ÷ L + N
c) \( L \times N \div M \)
d) \( N \times L \div M \)
e) None of these

60. What will be the measurement of the angle made by the hands of a clock when the time is 8:35?
   a) 32.4°
   b) 37.5°
   c) 45°
   d) 47.5°
e) None of these

61. If 1st January 2001 was Monday, then what day of the week was it on 31st December, 2001?
   a) Wednesday
   b) Friday
   c) Monday
   d) Saturday
e) None of these

62. A direction pole was situated on the road crossing. Due to an accident, the pole turned in such a manner that the pointer which was showing East, started showing South. Sita, a traveller went to the wrong direction thinking it to be West. In what direction actually she was travelling?
   a) North
   b) West
   c) East
d) South
e) None of these

63. 5 friends are sitting on a bench. A is to the left of B but on the right of C. D is to the right of B but on the left of E. Who are at the extremes?
   a) A, B
   b) A, D
   c) B, D
d) C, E
e) None of these

Directions (Q. 64-68) Study the following information to answer the given questions.

Eight friends A, B, C, D, E, F, G and H are sitting in a circle facing the centre, not necessarily in the same order. D sits 3rd to the left of A. E sits to the immediate right of A. B is 3rd to the left of D. G is 2nd to the right of B. C is an immediate neighbor of B. C is 3rd to the left of H.

64. Who amongst the following is sitting exactly between F and D?
   a) C
   b) E
c) H
d) A
e) None of these

65. Three of the following four are alike in a certain way based on the information given above and so form a group. Which is the one that does not belong to that group?
   a) DC
   b) AH
c) EF
d) CB
e) None of these

66. Who amongst the following is sitting 2nd to the left of H?
   a) E
   b) B
c) A
d) None of these
e) Can’t be determined

67. Who amongst the following are immediate neighbours of G?
   a) CA
   b) AF
c) DC
d) DF
e) None of these

68. Who amongst the following is sitting 3rd to the right of A?
   a) F
   b) H
c) B
d) C
e) None of these

Directions (Q. 69-73) Read the following information carefully and answer the question given below it.

Following are the criteria for selection of interpreter in different embassies in India.
A. The candidate should be a graduate from a recognized university.
B. He or she should be 23 to 26 years of age as on 07th March, 2006.
C. The candidate should have the ability to read, write and speak English and Hindi besides the foreign language to which he/she has applied.
D. The candidate should have his/her own accommodation, either rental or own, in Delhi.

However, if a candidate fulfills all criteria except:
(i) At D but he/she has accommodation either rental or own, in NCT Delhi, his/her case is to be referred to foreign secretary.
(ii) At B but he/she has a PG degree in any discipline, his/her case is to be referred to personal assistant, foreign secretary.

Now, based on the above criteria and the information given below, you have to take decision in regard to each case. You are not to assume any information which is not available.

Give answer:
(a) If to be referred to foreign secretary
(b) If to be referred to PA foreign secretary
(c) If data is inadequate
(d) If to be selected
(e) If not to be selected

69. Sweta Singh is a Hindi Hons. Graduate from Hindu College, Delhi. Recently, she has celebrated her 23rd birthday on 09th January, 2006. She possesses her own house in Vikaspuri, Delhi. She can speak, write and read English, Hindi and French equally well.

70. Miss Anu knows how to speak, write and read Hindi, English and Portuguese. She also knows how to handle computers. She has done GNIIT after doing her graduation from a recognized university. She can arrange a house in Delhi for her accommodation.

71. Pinki has done her graduation from Oxford University. Her date of birth is 09th November, 1979. She knows how to speak, write and read Hindi, English and Spanish. Her grandfather owns a house in Ghaziabad, in NCT, Delhi. She can live with her grandfather during her job in Delhi.

72. Kiran, wife of Ajay and a graduate from a recognized university, lives with her husband at Kamla Nagar in North Delhi in their rental house. She has passed her post-graduation in History in February, 2003 at the age of 23 years. She can speak, read and write Maithili, Hindi, English and Nepali. Three languages Nepali, Maithili and Bhojpuri are being spoken in Nepal.

73. Reena has done the graduation from Jabalpur University, Madhya Pradesh. She can arrange her accommodation with her brother-in-law in Delhi. Her date of birth is 12th January, 1983. She can speak more than two languages including a foreign language.

**Directions (Q. 74-80)** In each of the questions below is given a statement followed by three courses of action numbered I, II and III. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. On the basis of information given in the statement, you have to assume everything in the statement to be true and then decide which of the three given suggested courses of action logically follows worth pursuing. Then, decide which of the alternatives (a), (b), (c), (d) or (e) is correct.

74. **Statement:** The army has been alerted in the District following floods triggered by incessant rains.

**Courses of action**
I. Relief to flood affected people should be arranged.
II. Supply of flood articles should be arranged.
III. Adequate medical facilities should be arranged.

a) Only I follows
75. Statement: Faced with a serious resource crunch and a depressing overall economic scenario, the state ‘X’ is unlikely to achieve the targeted percent compound annual growth rate during the 10th plan.

Courses of action
I. The target growth should be reduced for the next plan.
II. The reasons for the failures should be studied.
III. The state ‘X’’s performance should be compared with that of other states.

a) Only I follows
b) Both I and III follow
c) Both II and III follow
d) None follows
e) None of these

76. Statement: Over 27000 bonded labourers identified and freed are still awaiting rehabilitation.

Courses of action
I. More cases of bonded labourers should be identified.
II. Till the proper rehabilitation facilities are available, the bonded labourers should not be freed.
III. The impediments in the way of speedy and proper rehabilitation of bonded labourers should be removed.

a) Only I follows
b) Only II follows
c) Only III follows
d) Both II and III follow
e) None of these

77. Statement: Higher disposal costs encourage those who produce waste to look for cheaper ways to get rid of it.

Courses of action
I. The disposal costs should be made higher.
II. The disposal costs should be brought down.
III. A committee should be set up to study the details in this respect.

a) Only I follows
b) Only II follows
c) Either I or II follows
d) Both II and III follow
e) None of these

78. Statement: If the faculty members also join the strike, there is going to be a serious problem.

Courses of action
I. The faculty members should be persuaded not to go on strike.
II. Those faculty members who join the strike should be suspended.
III. The management should not worry about such small things.

a) Only I follows
b) Only II follows
c) Both II and III follow
d) None follows
e) None of these
79. **Statement:** According to the officials, paucity of funds with the organization has led to the pathetic condition of this brilliant architectural structure.

**Courses of action**

I. A new architectural structure for the building should be designed.
II. The reasons for the poor condition of the structure should be found out.
III. Grant should be given to improve the condition of the structure.

a) Only I follows
b) Only II follows
c) Only III follows
d) Both II and III follow
e) None of these

80. **Statement:** In the Teacher’s Day function, Shri Sharma, a State Awardee and a retired Principal, had questioned the celebration of Teacher’s Day in today’s materialistic World.

**Courses of action**

I. The expenditure of Teacher’s Day celebration should be reduced.
II. More funds should be allocated for the celebration of Teacher’s Day.
III. The role and responsibilities of teachers should be seen in today’s perspective.

a) All follow
b) None follows
c) Either I or II follows
d) Only III follows
e) None of these

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**English Language**

**Directions (Q. 81-95)** Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them while answering some of the questions.

Indeed the western recession is really the beginning of good news for India. But to understand that we will have to move away for a while from the topic of western recession …. To the Japanese recession! For years the Japanese style of management has been admired. However, over the last decade or so, one key question has sprung up if Japanese management style is as wonderful as described then why has Japan been in a recession for more than a decade?

The answer to this question is very simple, Culture plays a very important part in shaping up economies. What succeeds in one culture fails in another. Japanese are basically non-materialistic. And however rich they and buying endlessly. And once they have everything they need, there is a saturation point. It was only when companies like Toyota realized that they cannot keep selling cars endlessly to their home market that they went really aggressive in the western markets and the rest is history. Japanese companies grew bigger by catering to the World markets when their home markets shrunk.

And the markets have to shrink finally after attaining a level of affluence. And that’s great for the World because earth needs sustainable development. It does not need monstrous consumers who keep consuming at the cost of the environment and the earth. There should be limits to growth so that consumers are not converted into material dustbins for the profit to a handful of corporations.

Owing to the materialistic culture elsewhere, it was possible to keep selling newer products to the consumers despite having existing ones which served equally well. They were lured through advertising and marketing techniques of ‘dustbinisation’ of the customer and then finally, once they became ready customers, they were given loans and credits to help them buy more and more. When all the creditworthy people were given loans to a logical limit, they ceased to be a part of the market. Even this would have been understandable if it could work as an eye opener. Instead of taking the
‘Right Step’ as Toyota did, they preferred to take a ‘shortcut’. Now banks went to the non-creditworthy people and gave them loans. The people expectedly defaulted and the entire system collapsed.

Now, like Toyota western companies will learn to find new markets. They will now lean towards India because of its common man. The billion plus population in the next 25 years will become a consuming middle-class. Finally, the World’s attention will shift to the developing World. Finally, there will be a real surge in income of these people and in the next fifty odd years, one can really hope to see an equal World in terms of material plenty, with poverty being almost non-existent. And this will happen not by selling more cars to Americans and Europeans. It will happen by creating markets in India, China, Latin America and Africa, by giving their people purchasing power and by marketing products for them.

The recession has made us realize that it is not because of worse management techniques but because of limits to growth. And they will realize that it is great for planet earth. After all, how many cars and houses must the rich own before calling it enough? It’s time for them to look at others as well. Many years back, to increase his own profits, Henry Ford had started paying his workers more, so that they could buy his cars. In similar fashion, now the developed World will pay the developing World people so that they can buy their cars and washing machines.

The recession will kick-start the process of making the entire World more prosperous and lay the foundation of limits to growth in the west and the foundation of real globalization in the World – the globalization of prosperity. And one of its first beneficiaries will be India.

81. What does the author mean by the “Right Step” in the passage?
   a) Giving loans to creditworthy people only
   b) Considering market growth along with environment protection
   c) Restricting people to buy only such products which are needed by them
   d) To start looking at newer avenues and markets
   e) None of these

82. Although admired since years, why did the skepticism over the Japanese management style start since the last decade?
   a) Japanese companies have been moving out of their home markets since the last decade
   b) Japanese banks have provided loans indiscriminately to the creditworthy as well as non-creditworthy people
   c) Because Japanese markets have been going through a period of continuous recession since the last decade
   d) The unlimited growth of the Japanese markets has come at the cost of the western market
   e) None of these

83. Why does the author foresee the markets being created in the developing countries instead of America and Europe?
   a) All developing countries have materialistic culture
   b) Developed countries are willing to make an effort to achieve globalization
   c) American and European markets have had a large number of credit defaulters
   d) Recession has not hit the markets of developing counties yet
   e) None of these

84. According to the author, what is the main cause of Japanese recession?
   a) Only a handful of corporation earned profits and not the people in general
   b) Non-creditworthy people defaulted which lead to a collapse of the entire system
   c) Consumers were sold newer products which were similar in quality to the existing ones
   d) Japanese do not purchase endlessly and thus when products had been sold to every customer, the markets slowed down
   e) None of these

85. How does the author foresee the future globalization as an analogy to Henry Ford’s example?
A. Car companies would start selling cars in developing countries as well.
B. By paying the developing World the developed World would increase its own profit, in turn bringing affluence to developing World as well.
C. To earn profit, the companies in developing countries would move to foreign land.
   a) Only A  
   b) Only B  
   c) Only C  
   d) Only A and C  
   e) None of these

86. Which of the following was not an effect of providing loans and credits to the customers?
A. The non-creditworthy people defaulted.  
B. People bought new products which were not needed.  
C. Poverty became non-existent.
   a) Only A  
   b) Only B  
   c) Only A and B  
   d) Only B and C  
   e) Only C

87. Why is recession the beginning of good news for India in the author’s view?
A. India can provide an attractive market to the western companies.  
B. India has remained largely unaffected by recession owing to its huge population.  
C. Indians keep purchasing products despite owning equally good products.
   a) Only C  
   b) Only B  
   c) Only A  
   d) Only B and C  
   e) None of these

88. What does the author mean by ‘Dustbinisation of the customer’?
   a) Convincing the customer to buy products he does not need  
   b) Denying the non-creditworthy people of any loans  
   c) Denying more loans to people who have already taken loans to a logical limit  
   d) Moving from old customers at the home market to foreign markets  
   e) None of these

89. Why according to the author is the current recession great for ‘Planet Earth’?
A. It will make people non-materialistic like the Japanese.  
B. The unlimited market growth which caused hazards to the environment would be checked to a certain extent.  
C. Banks will now provide loans only to the creditworthy people.  
D. Developing countries will also be benefited by shifted markets.
   a) Only A  
   b) Only B and D  
   c) Only A and B  
   d) Only B  
   e) None of these

Directions (Q. 90-92) Choose the word which is most similar in meaning to the word printed in bold as used in the passage.

90. Catering
   a) Considering  
   b) Lending  
   c) Supplying  
   d) Working  
   e) Indulging

91. Key
   a) Foundation  
   b) Solution  
   c) Requisite  
   d) Difficult  
   e) Important

92. Aggressive
   a) Violent  
   b) Determined  
   c) Demanding  
   d) Offensive  
   e) Brutish

Directions (Q. 93-95) Choose the word which is most opposite in meaning to the word printed in bold as used in the passage.
93. Prosperous  
   a) Distressed  
   d) Worthless 
   b) Helpless  
   e) Underprivileged  
   c) Worse 

94. Consuming  
   a) Destroying  
   d) Curtailing 
   b) Exhausing  
   e) Spending  
   c) Greedy 

95. Surge  
   a) Decrease  
   d) Atrophy 
   b) Deteriorating  
   e) Crumble  
   c) Weakening 

Directions (Q. 96-100) Read each sentence to find out whether there is any grammatical error in it. The error if any will be in one part of the sentence, the number of that part is the answer. If there is no error, mark (5) as the answer. (Ignore errors of punctuation, if any)

96. To be a king and (1) / wear a crown are (2) / more glamorous to (3) see than to bear. (4) No error (5) 
97. None of the student (1) / in the class (2) / scored below the (3) / given cut-off marks. (4) No error (5) 
98. Ashok is among the (1) / few people in the World (2) / which did not blindly follow (3) / the path of others. (4) No error (5) 
99. Most people like to (1) / rest after a day’s hard work (2) / but he seemed to have (3) / an inexhaustive supply of energy. (4) No error (5) 
100. Ancient artifacts are (1) / a part of global heritage (2) / and should not be (3) sold to the highest bidder. (4) No error (5) 

Directions (Q. 101-105) Which of the phrases (1), (2), (3) and (4) given below each statement 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 is required mark (5) as the answer.

101. Alcohol in moderate quantity boosts concentration of good cholesterol and inhibiting blood clots.  
   a) inhibits blood clots  
   b) inhibit blood clots  
   c) inhibited blood clots  
   d) inhabiting blood clots  
   e) No correction required 

102. One of the main function of the State is maintenance of law and order.  
   a) main function for  
   b) main functions of  
   c) main functions for  
   d) main functions off  
   e) No correction required 

103. We must realize that learning from mistakes is an important part of life.  
   a) mistakes are an  
   b) mistakes are a  
   c) mistake are a  
   d) mistakes has an  
   e) No correction required 

104. The sword of Tipu Sultan was recently brought at an auction by an Indian for Rs.2 Crores.
a) brought in a  
b) brought in an  
c) bought in an  
d) bought at a  
e) No correction required

105. Setbacks and failures **has always been** an integral part of science.  
a) has always being  
b) were always been  
c) has been always  
d) have always been  
e) No correction required

**Directions (Q. 106-110)** Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

106. Many teachers ____ the lack of professional freedom as the ____ for leaving the job.  
a) cited, reason  
b) explained, force  
c) claimed, understanding  
d) argued, culprit  
e) believe, ground

107. Skeptics would not ____ that the earth actually moves, let alone that it ____ around the sun.  
a) permit, orbits  
b) accept, revolves  
c) experience, circles  
d) assume, went  
e) challenge, spins

108. Unpredictable ____ of the child could not lead the consultants to any ____.  
a) performance, setting  
b) belief, judgement  
c) operation, purpose  
d) behavior, conclusion  
e) react, decision

109. A public servant who is guilty will not ____ punishment and no ____ person will be punished.  
a) be, sincere  
b) flee, guilty  
c) defend, common  
d) avoid, uninformed  
e) escape, innocent

110. Few professions can ____ the sheer variety and constant ____ of being a doctor.  
a) like, struggle  
b) share, enthusiast  
c) match, challenge  
d) draw, work-load  
e) justify, exception
Directions (Q. 111-120) 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.

Twenty years (111) now, nearly 60% of the World’s population will live in urban areas. The impact of urbanization might not all be positive on India as urban expansion is happening at a much (112) rate than infrastructure expansion.

Sustainability issues need to be (113) so that economic development is not at the (114) of public health. Some urban services that ought to be in (115) in a city like water, electricity, transport etc. need special consideration.

TERI has put together a detailed report that (116) sustainability in the provision of basic urban services in Indian cities.

(117) public transport is a major reason for the proliferation of private vehicles on the road. Respiratory illness in children living in urban areas is on the (118) with more cases of Asthma being (119) because of pollution. The future of cities of Indian dreams depends of (120) we can build better cities today.

111. a) till b) since c) from
d) after e) on

112. a) faster b) slower c) changed
d) speed e) quick

113. a) speculated b) believed c) imagined
d) considered e) understand

114. a) payment b) rate c) costs
d) charge e) expense

115. a) abundance b) large c) functional
d) vicinity e) location

116. a) bring b) emphasizes c) speculates
d) postulates e) requests

117. a) Good b) Competent c) Absence
d) Inadequate e) Sufficient

118. a) multiplication b) expansion c) rise
d) inflation e) grow

119. a) produced b) develop c) composed
d) resulted e) reported

120. a) if b) whether c) unless
d) provided e) weather

General Awareness

121. Which Cricketer known as the nickname of ‘Pup’
   a) Michael Clarke
b) Shane Warne  
c) Sachin Tendulkar  
d) Matt Prior  
e) None of these

122. Who was the founder of Banaras Hindu University  
a) Pandit Madan Mohan Malviya  
b) Ram Krishan Lohiya  
c) Aditya Raj Goswami  
d) Dinanath Chauhan  
e) None of these

123. Name the capital of Himachal Pradesh  
a) Bilaspur  
b) Hamirpur  
c) Kangra  
d) Shimla  
e) None of these

124. Who appointed as Director General of Police of the State of Uttar Pradesh?  
a) A.K. Jain  
b) Ram Sharan  
c) Jagmohan Yadav  
d) Khushwant Singh  
e) None of these

125. Who awarded with US Presidential Award for Excellence?  
a) Bobby Jindal  
b) Meenakshi Arora  
c) Aditi Khobragade  
d) Darshan Jain  
e) None of these

126. Which bank launched the ‘Tatkal Project’ scheme?  
a) State Bank of India  
b) Bank of India  
c) Indian Bank  
d) Punjab National Bank  
e) None of these

127. Which country won South Asian Basketball Championship held in India?  
a) Sri Lanka  
b) India  
c) Japan  
d) Russia  
e) None of these

128. Who wrote the book titled as ‘A Breast Cancer Alphabet’?  
a) Preet Bharara  
b) Madhulika Sikka  
c) Dev Sharma  
d) Salman Rushdie  
e) None of these

129. Who is the President of Chile?
a) Angela Merkel  
b) David Harper  
c) Michelle Bachelet  
d) Rodrigo Valdes  
e) None of these

130. Which country declared 30 days State emergency on 04th July 2015?  
a) Chile  
b) Peru  
c) Tunisia  
d) Uruguay  
e) None of these

131. Indian Army dedicated the monument namely ‘PrernaSthal’ at which place?  
a) Ferozepur, Punjab  
b) Kaithal, Haryana  
c) Hamirpur, Himachal Pradesh  
d) Mathura, Uttar Pradesh  
e) None of these

132. Name the airways get licence from Directorate General of Civil Aviation?  
a) Turbo Megha Airways  
b) Ferrari Airways  
c) Fleece Airways  
d) Trijet Airways  
e) None of these

133. Where is SatishDhawan Space Centre located?  
a) Puri, Odisha  
b) Palakkad, Kerala  
c) Raipur, Chhattisgarh  
d) Sriharikota, Andhra Pradesh  
e) None of these

134. Who won men’s singles title of Wimbledon 2015?  
a) Roger Federer  
b) Sunil Nagpal  
c) Novak Djokovic  
d) Leander Paes  
e) None of these

135. Who appointed as Vice-Chief of Indian Army?  
a) Harmilap Singh  
b) Ravi Shankar Verma  
c) Manmohan Singh Rai  
d) Veerpal Chaudhary  
e) None of these

136. Pashupatinath Roy died, he was the former President of which organization?  
a) Billiards and Snooker Federation of India  
b) Indian Space Research Organization  
c) North Atlantic Treaty Organization  
d) United Nations  
e) None of these
137. Which Indian city declared as ‘City of Music’ by UNESCO?
   a) Bhopal
   b) Varanasi
   c) Vizianagaram
   d) Chennai
   e) None of these

138. Which famous personality awarded with Legion of Honour?
   a) Atul Pahwa
   b) Feroz Shah
   c) Sayed Haider Raza
   d) Ameen Begum Lata
   e) None of these

139. RBI signed an agreement with which bank known as Special Currency Swap Agreement?
   a) Deutsche Bank
   b) HSBC Bank
   c) Central Bank of Sri Lanka
   d) Industrial & Commercial Bank of China
   e) None of these

140. Who became Governor of the State of Arunachal Pradesh?
   a) Jyoti Ram Prasad Basu
   b) Arvind Khurana
   c) Jyoti Prasad Rajkhowa
   d) Prem Khandu Thangan
   e) None of these

141. Who became oldest woman to complete a marathon?
   a) Robert Kipkoech Cheuiyot
   b) Charles Ellison
   c) Harriette Thompson
   d) Seppie Buttick
   e) None of these

142. Asian Athletics Championship 2015 held in which city?
   a) Wuhan, China
   b) New Delhi, India
   c) Islamabad, Pakistan
   d) Dhaka, Bangladesh
   e) None of these

143. Who is the Defence Minister of India?
   a) Suresh Prabhu
   b) Manohar Parrikar
   c) Nitin Jairam Gadkari
   d) Amit Shah
   e) None of these

144. Irwin Rose, the Nobel Prize winner died, he won Nobel in which field?
   a) Chemistry
   b) Physics
   c) Literature
   d) Economics
145. Which South African Cricketer awarded with South Africa Cricketer of the year Award?
   a) Hashim Amla
   b) Kyle Abbott
   c) Farhaan Behardien
   d) AB De Villiers
   e) None of these

146. Who won Baileys Women’s Prize for Fiction?
   a) J.K. Rowling
   b) Ian Martin
   c) Ali Smith
   d) Gillian Bowditch
   e) None of these

147. G7 Summit 2015 held in which country?
   a) Canada
   b) France
   c) Germany
   d) USA
   e) None of these

148. Who wrote the novel ‘Flood of Fire’?
   a) Abhisar Verma
   b) Amitav Ghosh
   c) Leela Saraswati
   d) Amrit Singh
   e) None of these

149. Which is the Capital city of Turkey?
   a) Ankara
   b) Istanbul
   c) Antalya
   d) Izmir
   e) None of these

150. Name the three cities included in National Capital Region?
   a) Jind, Karnal, Kaithal
   b) Muzaffarnagar, Mathura, Jind
   c) Karnal, Sonepat, Panipat
   d) Jind, Karnal, Muzaffarnagar
   e) None of these

151. Shah Rukh Khan acquired which team of Caribbean Premier League?
   a) Antigua Hawksbills
   b) Barbados Tridents
   c) Guyana Amazon Warriors
   d) Trinidad & Tobago
   e) None of these

152. Nek Chand Saini, died recently, he was the creator of famous garden situated in India, name that Garden?
   a) Nehru Rose Garden, Ludhiana
b) Rock Garden, Chandigarh  
c) Mughal Gardens, Kashmir  
d) Pinjore Garden, Chandigarh  
e) None of these

153. Which team won UEFA Champions League title 2015?  
a) Real Madrid  
b) Milan  
c) Bayern Munich  
d) FC Barcelona  
e) None of these

154. Name the party formed by Jitan Ram Manjhi, the former Chief Minister of Bihar?  
a) Jan Adhikar Party  
b) Hindustan Awam Party  
c) National Democratic Party  
d) Janta Ki Awaaz Party  
e) None of these

155. The idea of machine independent programming languages, which led to the development of COBL, was popularised by  
a) Dennis Ritchie  
b) Grace Hopper  
c) John Burden  
d) Steve Jobs  
e) None of these

156. Banking Ombudsman is appointed by  
a) Government of India  
b) State governments  
c) RBI  
d) ECGC  
e) None of these

157. A banknote which has become dirty due to usage and includes a two-piece note pasted together wherein both the pieces presented belong to the same note, and form the entire note, is termed as  
a) Soiled banknote  
b) Mutilated banknote  
c) Imperfect banknote  
d) Counterfeit banknote  
e) None of these

158. Indian currency notes up to which of the following denominations are legal tender in Nepal and Bhutan?  
a) Up to Rs.50  
b) Up to Rs.100  
c) Up to Rs.500  
d) Up to Rs.1000  
e) None of these

159. The abbreviation ASBA stands for ______  
a) Applications Supported by Blocked Account  
b) Applications Supported by Bank Account  
c) Applications Sustained by Blocked Amount
d) Applications supported by Blocked Amount

e) None of these

160. Despite accepting deposits and giving loans, the operation of which of the following entities do not come under the purview of the Reserve bank of India as of now?

a) Regional Rural Banks
b) Cooperative Credit Societies
c) Payment Banks
d) Non-Banking Finance Companies
e) None of these

Computer Knowledge

161. A(n) _______ converts and executes one statement at a time.

a) Compiler  
b) Interpreter  
c) Converter
d) Instructions  
e) None of these

162. The term _______ designates equipment that might be added to a computer system to enhance its functionality.

a) Digital device  
b) System add on  
c) Disk pack  
d) Peripheral device  
e) None of these

163. Approximately how many bytes make one Megabyte?

a) One thousand  
b) Ten thousand  
c) One hundred  
d) One million  
e) None of these

164. What is MP3?

a) A Mouse  
b) A Printer  
c) A Sound Format  
d) A Scanner  
e) None of these

165. _______ this is the act of copying or downloading a program from a network and making multiple copies of it.

a) Network piracy  
b) Plagiarism  
c) Software piracy  
d) Site licence piracy  
e) None of these

166. Which is the best definition of a software package?

a) An add-on for your computer such as additional memory  
b) A set of computer programs used for a certain function such as word processing  
c) A protection you can buy for a computer  
d) The box, manual and licence agreement that accompany commercial software
167. In MICR, C stands for ________
   a) Code  
   b) Colour  
   c) Computer  
   d) Character  
   e) None of these

168. Fax machines and imaging systems are examples of
   a) Bar-code readers  
   b) Imaging systems  
   c) Scanning devices  
   d) Pen-based systems  
   e) None of these

169. When writing a document, you can use the ______ feature to find an appropriate word or an alternative word if you find yourself stuck for the right word.
   a) Dictionary  
   b) Word finder  
   c) Encyclopedia  
   d) Theasurus  
   e) None of these

170. Which key is used in combination with another key to perform a specific task?
   a) Function  
   b) Control unit  
   c) Arrow  
   d) Space bar  
   e) None of these

171. In an information system, alphanumeric data normally takes the form of ______
   a) Sentences and paragraphs  
   b) Numbers and alphabetical characters  
   c) Graphic shapes and figures  
   d) Human voice and other sounds  
   e) None of these

172. A Web site's main page is called its ______
   a) Home page  
   b) Browser page  
   c) Search place  
   d) Bookmark  
   e) None of these

173. When installing ______ the user must copy and usually decompress program files from a CD-ROM or other medium to the hard disk.
   a) Programming software  
   b) System hardware  
   c) Applications hardware  
   d) Applications software  
   e) None of these

174. A collection of interrelated files in a computer is a ______
   a) File manager  
   b) Field  
   c) Record  
   d) Database  
   e) None of these

175. A _____ computer is a large and expensive computer capable of simultaneously processing data for hundreds or thousands of users.
   a) Server  
   b) Mainframe  
   c) Desktop  
   d) Tablet  
   e) None of these
176. The trend in computer systems is toward the use of Graphical User Interfaces. In these operating systems, a trackball is described as ______
   a) A roller ball which moves the cursor
   b) A pen-shaped device which allows data to be entered through the CRT screen
   c) A figure which resembles a familiar office device
   d) An outdates input device
   e) None of these

177. Various applications and documents are represented on the Windows desktop by ______
   a) Symbols
   b) Labels
   c) Graphs
   d) Icons
   e) None of these

178. What is usually used for displaying information at public places?
   a) Monitors
   b) Overhead Projections
   c) Monitors and Overhead Projections
   d) Touch Screen Kiosks
   e) None of these

179. The real business and competitive value of information technology lies in ______
   a) The software applications that are used by many companies
   b) The capabilities of the software and value of the information a business acquires and uses
   c) The infrastructure of hardware, networks, and other IT facilities that are commonly used by many companies
   d) The capabilities of the hardware and the speed at which it process information
   e) None of these

180. Companies use which of the following vendors to provide access to software and services rather than purchasing the applications and maintaining the applications themselves?
   a) Open source vendors
   b) Alliances
   c) Application service providers
   d) All of the above
   e) None of these

181. Which one of the following would be considered as a way that a computer virus can enter a computer system?
   a) Opening an application previously installed on the computer
   b) Borrowed copies of software
   c) Viewing a website without causing any additional transactions
   d) Running antivirus programs
   e) None of these

182. Collecting personal information and effectively posing as another individual is known as the crime of ______
   a) Spooling
   b) identity theft
   c) Spoofing
   d) Hacking
   e) None of these

183. The first step in the transaction processing cycle is ______
   a) Database operations
b) Audit  
c) Data entry  
d) User inquiry  
e) None of these

184. In the information systems concept, the output function involves  
a) Capturing and assembling elements that enter the system to be processed  
b) Transformation process that convert input into output  
c) Transferring elements that have been produced by transformation process to their ultimate destination  
d) Monitoring and evaluating feedback to determine whether a system is moving towards the achievement of its goal  
e) None of these

185. Sending an E-mail is similar to  
a) Writing a letter  
b) Drawing a picture  
c) Talking on the phone  
d) Sending a package  
e) None of these

186. What is the main folder on a storage device called?  
a) Platform  
b) Interface  
c) Root directory  
d) Device driver  
e) None of these

187. The blinking symbol on the computer screen is called  
a) Mouse  
b) Hand  
c) Light  
d) Cursor  
e) None of these

188. What is correcting errors in a program called?  
a) Interpreting  
b) Translating  
c) Debugging  
d) Compiling  
e) None of these

189. A ________ is an organized collection of data about a single entity.  
a) File  
b) Library  
c) Database  
d) Dictionary  
e) None of these

190. The type of software that controls the internal operations in the computer, and controls how the computer works with all its parts is which of the following?  
a) Shareware  
b) Operating system software  
c) Application software or system software  
d) Public domain software  
e) None of these

191. A word processor would most likely be used to do which of the following?  
a) Keep an account of money spent  
b) Maintain an inventory  
c) Type a biography  
d) Do a computer wear in the media centre  
e) None of these
192. In addition to keying data directly into a database, data entry can be done from a(n)
a) Input form b) Table c) Field
d) Data dictionary e) None of these

193. Something which has easily-understood instructions is said to be
a) User friendly b) Information
c) Word processing d) Icon e) None of these

194. What is an E-mail attachment?
a) A receipt sent by the recipient
b) A separate document from another program sent along with an E-mail message
c) A malicious parasite that feeds off of your messages and destroys the contents
d) A list of CC: or BCC: recipients
e) None of these

195. What happens when you boot up a PC?
a) Portions of the operating system are copied from disk into memory
b) Portions of the operating system are copied from memory onto disk
c) Portions of the operating system are compiled
d) Portions of the operating system are emulated
e) None of these

196. Manipulating data to create information is known as
a) Feedback b) Programming c) Processing
d) Analysis e) None of these

197. A hard copy of a file created on a computer refers to data
a) Saved on a floppy disk b) Printed on a printer
c) Backed up on a tape drive d) Sent as an e-mail
e) None of these

198. An area of the microprocessor chip used to temporarily store instructions and data
that the processor is likely to use frequently is termed a(n)
a) ALU b) Bus c) Cache
d) CPU e) None of these

199. Which of the following is not necessary to be considered computer literate?
a) The ability to write the instructions that direct a computer
b) An awareness of the computer's importance, versatility and pervasiveness in society
c) Knowledge of what computers are and how they work
d) The ability to interact with computers using simple applications
e) None of these

200. What is an onscreen picture that represents an object, such as a program or file?
a) Spooling b) NOS c) Page
d) Icon e) None of these
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Answers:

1. Option C
   $? = (11.49)^4$
   $? = 17429.31 = 17430$

2. Option B
   $? = (2198 - 1347 - 403) ÷ (159 - 113 - 27)$
   $? = (448) ÷ (19)$
   $? = 23.58 = 24$

3. Option A
   $? = \frac{925 \times 330}{507}$
   $? = \frac{22250}{507}$
   $? = 5.36 = 5$

4. Option D
   $? = \sqrt{888888} \times 1.486$
   $? = 942.8086 \times 1.486$
   $? = 1401.01 = 1400$

5. Option E
   $? = 564.666 + 82.5091 \times 44.581 - 34.111$
   $? = 564.666 + 3678.338 - 34.111$
   $? = 4208.893 = 4210$

6. Option D
   A multiplied by an odd number is equal to an odd number i.e. odd number \times odd number = odd number

7. Option E

8. Option B
   From statement II, Average of the salary of A, B, C and D is Rs.62880
   Average of the salary of A, C and D is Rs.61665
   So the salary of B = (62880 \times 4) - (61665 \times 3) = 66525
   So, only II is enough to provide the answer

9. Option C
   From statement II, number is $= 6 \times 6$
   From statement I, number is divisible by 9 so the number is 666

10. Option D
    From statement II,
    $SP = Rs.3000, P = 20\%$
    $CP = \frac{100}{100+20} \times 3000$
    $CP = \frac{100}{120} \times 3000 = Rs.2500$
    From statement I,
    $Profit\% = \frac{6}{5} \times 100$
    $Profit\% = \frac{100}{5} = 20\%$

11. Option B
    Suppose the numbers are $x$ and $x + 2$. 
x (x + 2) = 9408
x^2 + 2x - 9408 = 0
x^2 + 98x - 96x - 9408 = 0
x (x + 98) - 96 (x + 98) = 0
(x - 96) (x + 98) = 0
X = 96
Largest number = x + 2 = 98

12. Option C
? = 4500 × \frac{5}{9} × \frac{36}{100} × \frac{27}{100} = 243

13. Option D
14. Option A
Suppose the fraction is \frac{x}{3}
\frac{x+3x}{y+y} = \frac{30}{19}
\frac{4x}{2y} = \frac{30}{19}
76x = 60y
\frac{x}{60} = \frac{15}{76}
y = \frac{19}{19}

15. Option A
Days          Women
18            42
21            x
21 : 18 : : 42 : x
x = \frac{18 \times 42}{21} = 36

16. Option B
Suppose the age of Sulekha and Arunima is 9x and 8x.
\frac{9x+5}{8x+5} = \frac{10}{9}
81x + 45 = 80x + 50
81x - 80x = 50 - 45
x = 5
Difference = 9 × 5 - 8 × 5
= 45 - 40 = 5 years

17. Option D
? = 1008 × \frac{7}{8} - 568 × \frac{3}{4}
? = 882 - 426 = 456

18. Option A
? = \frac{76}{7}
?^2 = 171 \times 76
? = \sqrt{171 \times 76}
? = \sqrt{12996}
? = 114

19. Option C
Suppose total amount was Rs.x.
x - 68357 - 25675 = x × \frac{28}{100}
20. Option B
Suppose the number is x.
\[ x \times \frac{5}{720} = 720 \]
\[ x = \frac{720 \times 6}{5} \]
\[ x = 864 \]
\[ 864 \times \frac{45}{100} = 388.8 \]

21. Option A
Suppose the principle is Rs.x
\[ \frac{6}{100} + \frac{6.5}{100} + \frac{7.0}{100} + \frac{7.5}{100} = 3375 \]
\[ \frac{x}{100} \times 27 = 3375 \]
\[ x = \frac{3375 \times 100}{27} = Rs.12500 \]

22. Option D
Suppose the speed of the train = x m/s
\[ \frac{240 + 40}{x} = \frac{240 + 480}{x} \]
\[ 240 + 40x = 720 \]
\[ 40x = 720 - 240 \]
\[ 40x = 480 \]
\[ x = 12 \text{ m/s} \]

23. Option B
There are 7 letters in the word RIDDLED whereas D comes three times.
\[ \frac{7!}{3!} = \frac{7 \times 6 \times 5 \times 4 \times 3!}{3!} = 840 \]

24. Option C
Radius of circular plot = \( \sqrt{98.56} \times \frac{7}{22} \)
\[ \sqrt{31.36} = 5.6 \]
Length of fence = \( 2 \times \frac{22}{7} \times 5.6 = 35.2 \text{ foot} \)
Required cost of fencing per foot = \( 35.2 \times 614 = Rs.21612.8 \)

25. Option E
Suppose at the time of marriage, the age of Michelle was x years.
\[ x + 9 = \frac{4}{3}x \]
\[ \frac{x}{3} = 9 \]
\[ x = 3 \times 9 = 27 \text{ years} \]
Present age of Michelle = 27 + 9 = 36 years
Her daughter’s age two years ago = \( \frac{36}{6} - 2 = 6 - 2 = 4 \text{ years} \)

26. Option E
Suppose the number is 10x + y
\[ x - y = 9 \]
27. Option C
From Statement I, area of square = \(21 \times 21 = 441\) square cm
From Statement II, area of square = \(\frac{84}{4} \times \frac{84}{4} = 21 \times 21 = 441\) square cm

28. Option D
From both statements, the age of Seema cannot be determined

29. Option E
From statements I and II
\[4m + 6f = 12f\]
\[4m = 6f\]
\[10m = \frac{6}{4} \times 10 = 15f\]
Required number of days = \(\frac{12 \times 16}{15} = 12.8\) days

30. Option B
From Statement II, speed of boat = \(\frac{12}{6} = 2\) km/h

31. Option C
Required part = \(-\frac{45}{24 \times 60} = \frac{3}{24 \times 4} = \frac{1}{32}\)

32. Option D
Suppose the numbers are \(x\) and \(y\)
\[xy = 640\]
\[x + y = (x - y) + 32\]
\[x + y = x - y + 32\]
\[2y = 32\]
\[y = 16\]
\[x = \frac{640}{16} = 40\]
largest number is 40

33. Option E
Suppose the distance of one side = \(x\) km
\[\frac{x}{2} - \frac{x}{2} = 1\]
\[\frac{45}{4} - \frac{45}{45x} = 1\]
\[\frac{180c}{5x} = 1\]
\[180c = 5\]
\[x = \frac{1 \times 180c}{5} = 360\) km

34. Option A
Suppose the number of boys and girls increased are \(x\)
\[20 + \frac{x}{2} = 7\]
\[25 + \frac{x}{8} = 8\]
\[160 + 8x = 175 + 7x\]
\[8x - 7x = 175 - 160\]
\[x = 15\]
now the number of members in group = \((20 + 15) + (25 + 15)\)
35. Option C
Total amount = \( \frac{100 \times (31895 + 38789)}{100 - 23} \)
= \( \frac{100 \times 70684}{77} \)
= 91800

36. Option C
Number of members reading English as well as Marathi newspapers = 300
Number of members reading English as well as Hindi newspapers = 200
Required difference = 300 – 200 = 100

37. Option D
Number of members read at least 2 newspapers = 400 + 200 + 300 + 100 = 1000

38. Option E
Number of members read Hindi newspaper = 550 + 200 + 100 + 400 = 1250

39. Option B
Number of members read at least one newspaper = 550 + 650 + 450 = 1650

40. Option A
Number of members reading no newspaper = 2800 – (550 + 200 + 650 + 400 + 100 + 300 + 450) = 2800 – 2650 = 150

41. Option B
M A D R A S
D A M S A R
M U M B A I
M U M I A B
MUMBAI = MUMIAB

42. Option D
I N S T I T U T I O N
9 14 19 20 9 20 21 20 9 15 14
N O I T U T I S N I
14 15 9 20 21 20 9 20 19 14 9
43. Option D
Deepti>Sweta>Seema>Sohan>Seeta
Deepti is the eldest

44. Option B
Required position = (40 + 1 – 14) = 27th

45. Option D
Days by Ayush 13, 14, 15 in January
Days by Mehar 14, 15, 16 in January
Clearly, 14th and 15th January are common in both the groups.

46. Option B
\[ ? = 12 + 6 \div 3 - 2 \times 8 \]
\[ = 12 \div 6 - 3 \times 2 + 8 \] (using BODMAS rule)
\[ = 2 - 3 \times 2 + 8 = 2 - 6 + 8 \]
\[ = (2 + 8) - 6 = 4 \]

47. Option E
L > M .... (i)
M > N .... (ii)
N > P .... (iii)
On combining all the three statements, we get
L > M > N > P
Conclusions: I. L > P (True)
II. M > P (True)

48. Option E
A > B .... (i)
B = H .... (ii)
H > G .... (iii)
On combining the statements (i), (ii) and (iii), we get
A > B = H > G
Conclusions: I. A > G (True)
II. A > H (True)

49. Option D
H < J .... (i)
F < H .... (ii)
I \leq J = K .... (iii)
On combining the statements (i), (ii) and (iii), we get
F < H < J = K \geq I
Conclusions: I. H > I (False)
II. I \geq F (False)

50. Option E
A < B < C \leq D = E
Conclusions: I. B \leq E (False)
II. B < E (True)

51. Option B

P > M > Q .... (i)
Q > Z > N .... (ii)

On combining the statements (i) and (ii) we get
P > M > Q > Z > N

Conclusions:
I. M ≥ Z (False)
II. N < P (True)

52. Option D

M % T → M < T .... (i)
T $ K → T > K .... (ii)
K © D → K ≤ D .... (iii)

On combining the statements (i), (ii) and (iii), we get
M < T > K ≤ D

Conclusions:
I. T $ D → T > D (False)
II. D $ M → D > M (False)

53. Option A

F @ B → F = B .... (i)
B % N → B < N .... (ii)
N $ H → N > H .... (iii)

On combining the statements (i), (ii) and (iii), we get
F = B < N > H

Conclusions:
I. N $ F → N > F (True)
II. H $ F → H > F (False)

54. Option C

R * M → R ≥ M .... (i)
M @ K → M = K .... (ii)
K © J → K ≤ J .... (iii)

On combining the statements (i), (ii) and (iii), we get
R ≥ M = K ≤ J

Conclusions:
I. J $ M → J > M (May be true)
II. J @ M → J = M (May be true)

55. Option E

B $ N → B > N .... (i)
N * R → N ≥ R .... (ii)
R @ K → R = K .... (iii)

On combining the statements (i), (ii) and (iii), we get
B > N ≥ R = K

Conclusions:
I. K © N → K ≤ N (True)
II. B $ K → B > K (True)

56. Option B

J © K → J ≤ K .... (i)
K $ N → K > N .... (ii)
N * D → N ≥ D .... (iii)

On combining the statements (i), (ii) and (iii), we get
J ≤ K > N ≥ D

Conclusions:
I. J % N → J < N (False)
II. D % K → D < K (True)
57. Option B
   R @ D → R = D .... (i)
   D © M → D ≤ M .... (ii)
   M $ T → M > T .... (iii)
   On combining the statements (i), (ii) and (iii), we get
   R = D ≤ M > T
   Conclusions:  I. T % D → T < R (False)
                II. M * R → M ≥ R (True)

58. Option C
59. Option D
60. Option D
   Angle traced by hour hand in 35 min. after 8 = 35 × \(\frac{\pi}{2}\) = 17.5°
   At 8 : 35, min. hand is at 7, and angle between 8 and 7 = 30°
   Required angle between two hand at 8 : 35 = 30° + 17.5° = 47.5°

61. Option C
   Year 2001 was an ordinary year and in an ordinary year
   1st day = last day
   1st January = 31st December
   As, given that, 1st January = Monday
   Hence, 31st December = Monday

62. Option A
   The pointer which was showing West started showing South. Hence, the pointer turned 90°
   clockwise. Now, Sita went to the direction thinking it as West. The original direction will be
   +90° clockwise i.e. North direction.

63. Option D
   Left
   C A B D E
   Right
   Clearly, C and E are at the extremes.

64. Option C
   Clearly, H is sitting exactly between F and D

65. Option D
66. Option D
67. Option C
68. Option D
69. Option D
70. Option C
71. Option E
72. Option B
73. Option C
74. Option D

All the courses of action are worth pursuing for the problem as defined in the statement, because flood affected persons need all sort of relief i.e., food, medical facilities etc.

75. Option C
Courses of action II and III are worth pursuing the problem as defined in the statement. Reasons for failure should be studied and performance of the affected state should be compared with that of other states.

76. Option C
Only course of action III provides a feasible and effective course to combat the problem, that impediments in the way of speedy and proper rehabilitation should be removed. Courses of action I and II are not effective courses.

77. Option D
Courses of action II and III are feasible and effective to combat the problem.

78. Option A
The best way to prevent faculty members to go on strike is to persuade them. Hence, course of action I shows the right course of action.

79. Option C
Condition of the architectural structure can be improved by way of adequate finance. Hence, course of action III, that grant should be given to improve the condition of the structure, is the right course of action.

80. Option D
In the statement, celebration of Teacher’s Day in today’s materialistic World is in question which means that the role and responsibilities of teachers should be seen in today’s perspective. Hence, course of action III is the right course of action.

81. Option D
82. Option C
83. Option E
84. Option D
85. Option B
86. Option E
87. Option C
88. Option A
89. Option B
90. Option C
The word catering means ‘to provide the things that a particular type of person wants’. Hence the words catering and supplying are synonymous.

91. Option E
   Key means ‘most important: essential: critical: vital’, so, the words key and important are synonymous important.

92. Option B
   Aggressive means ‘acting with force and determination in order to succeed’. Hence, the words aggressive and determined are synonymous.

93. Option E
   Prosperous means ‘rich and successful: affluent’. Of the given alternatives, the word underprivileged means ‘having less money and fewer opportunities than others, disadvantaged. So, underprivileged is most opposite in meaning to it.

94. Option A
   Destroying is most opposite in meaning to the word consuming as used in the passage.

95. Option A
   Surge means ‘a sudden increase in value’. So, the words surge and decrease are antonymous.

96. Option B
97. Option A
98. Option C
99. Option C
100. Option E
101. Option A
102. Option B
103. Option E
104. Option C
105. Option D
106. Option A
107. Option B
108. Option D
109. Option E
110. Option C
111. Option C
112. Option A
113. Option D
114. Option E
115. Option A
116. Option B
117. Option D
118. Option C
119. Option E
120. Option B
121. Option A
122. Option A
123. Option D
124. Option C
125. Option D
126. Option A
127. Option B
128. Option B
129. Option C
130. Option C
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