

1. _____ : horse :: board : train

- a) stable
- b) shoe
- c) ride
- d) mount

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2. In a certain code "bi nie pie" means "some good jokes". "nie bat lik" means "some real stories" and "pie lik tol" means "many good stories". Which word in that code means "jokes"?

- a) bi
- b) nie
- c) pie
- d) None of these

3. Look carefully for the pattern in the series "2 44 4 41 6 38 8", and then suggest which pair of numbers comes next.

- a) 10 12
- b) 35 32
- c) 34 9
- d) 35 10

4. Find out what come next in the series: A, B, N, C, D, O, E, F, P, ?, ?, ?

- a) G, H, Q
- b) G, H, I
- c) J, K, L
- d) Q, R, D

5. "PUSH" is coded as 1234, "ROUGH" is coded as 65274. Then "SOUP" is coded as?

- a) 3551
- b) 3521
- c) 1235
- d) 1551

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6. 'Reds' are 'blues', 'blues' are 'whites', 'whites' are 'yellows', 'yellows' are 'oranges', 'oranges' are 'pinks', then what is the colour of the sky?

- a) Blue
- b) Orange
- c) Yellow
- d) White

7. Choose the alternative that will complete the series: B0R, E3U, G9Y, J18D, (....).

- a) E3P
- b) H9N
- c) L30J
- d) G3U

8. What terms will fill the blank space, bbNNccOO? DD PP
 a) aa
 b) qq
 c) dd
 d) pp

9. Which will be the next number in blank space 48, 24, 72, 36, 108, (...)
 (a) 110
 (b) 115
 (c) 121
 (d) 54

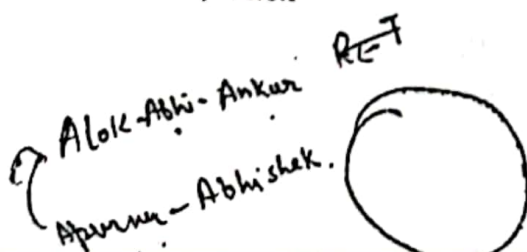
10. Which number will be filled in blank space 5, 10, 15, 25, 40,
 a) 45
 b) 50
 c) 60
 d) 65

11. If "GIRL" means "HJSM", what does "RNES" means?
 a) BOYS
 b) COWS
 c) TOYS
 d) SOFT

12. In a certain code, "GOODNESS" is coded as "HNPCODTR". How is "GREATNESS" coded in that code?
 a) HQFZUODTR
 b) HQFZUMFRT
 c) HQFZSMFRT
 d) HQFZUFRT

13. There are five different houses, P, Q, R, S and T. P is to right of Q, T is to the left of R and right of P. Q is to the right of S. Which of the house is in the middle?
 a) P
 b) Q
 c) T
 d) R

14. Five students are standing in a circle. Abhinav is between Alok and Ankur. Apurva is on the left of Abhishek. Alok is on the right of Apurva. Who is sitting next to Abhinav on his right?
 a) Apurva
 b) Ankur
 c) Abhishek
 d) Alok



Q → P
 T ← R
 S - Q - P - T - R

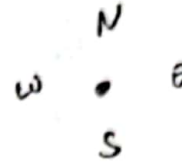
P → Q
 T ← R
 S - Q - P - T - R

15. Manish ranked sixteenth from the top and twenty-ninth from the bottom among those who passed an examination. Six boys did not participate in the competition and five failed in it. How many were there in the class?

- a) 40
- b) 44
- c) 50
- d) 55

16. Ramesh is facing North. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction he is facing?

- a) North-East
- b) North-West
- c) South-East
- d) South-West



17. Pointing to Satish, Ashok said, "He is the son of my sister's only brother." How Satish is related to Ashok?

- a) Son
- b) Grandson
- c) Nephew
- d) None of these

18. The set figures given below carry certain characters. The characters in each set follow a similar pattern. Find the missing character.



Fig. A



Fig. B



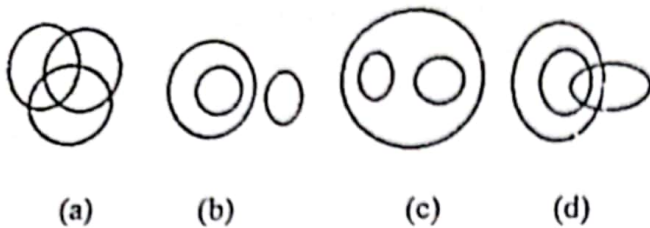
Fig. C

- a) 117
- b) 36
- c) 32
- d) 26

19. If 18th February, 1997 falls on Tuesday, then what will be the day on 18th February, 1999?

- a) Monday
- b) Tuesday
- c) Thursday
- d) Friday

20. Which of the following diagrams correctly represents the relationship among Tea, Coffee, Beverages?



21. Graph of time series in data is called _____

- a) Polygon
- b) Histogram
- c) Ogive
- d) Historigram

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22. In quartiles, central tendency median to be measured must lie in

- a) first quartile
- b) second quartile
- c) third quartile
- d) four quartile

23. Per day wage of 15 employees of different departments is as 620, 640, 750, 850, 650, 720, 730, 785, 630, 740, 900, 880, 780, 690, 850 then value of \bar{X} is

- a) 647.67
- b) 947.67
- c) 847.67
- d) 747.67

24. If value of mode is 14 and value of arithmetic mean is 5 then value of median is

- a) 12
- b) 18
- c) 8
- d) 14

5
6
7
8
9
10
11
12
13
14

25. For individual observations, reciprocal of arithmetic mean is called

- a) geometric mean
- b) harmonic mean
- c) deviation square mean
- d) paired mean

26. Standard deviation of data is 12 and mean is 72 then coefficient of variation is

- a) 14.67%
- b) 16.67%
- c) 12.67%
- d) 13.67%

12
72

27. For a Normal Distribution the range $\text{Mean} \pm \text{S.D.}$ covers what % of the items-

- a) 65%
- b) 68.26%
- c) 85%
- d) 95%

28. Find out Range from the given array: -10, 0, -2, -8, 10, 7, 2, -5, and 0.

- a) 10
- b) 8
- c) 20
- d) 0

10 2 6 2 3 5

29. Which of the following would you regard as discrete variables?

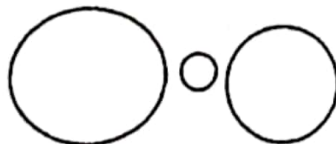
- a) Height
- b) Weight
- c) Wages paid to Workers
- d) No. of students in different classes

30. Which graph is prepared when a variable has several components?

- a) Band graph
- b) Histogram
- c) Silhouette Graph
- d) Zeon Graph

31. Which of the following diagrams indicate the best relation between Profit, Dividend and Bonus?

a)



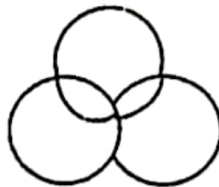
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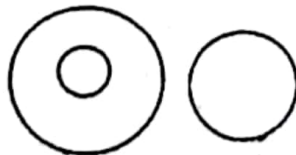
b)



c)



d)



32. Arithmetic mean of the following frequency distribution is 8.8. What will be the missing frequency?

Wages (Rs.)	4-6	6-8	8-10	10-12	12-14
No. of workers	6	---	16	22	5

(a) 2

(b) 3

(c) 1

(d) 4

33. The mean of 20 observations is found to be 40. Later on, it was discovered that a marks 53 was misread as 83. What will be the correct mean?

(a) 40.5

(b) 38.5

(c) 39.5

(d) None of these

34. What is the median of the numbers 14, 15, 30, 40, 10, 25, 20, 35?

(a) 20.5

(b) 21.5

(c) 22.5

(d) 23.5

35. In a moderately asymmetrical distribution the mode and mean are 32.1 and 35.4 respectively. What is the median?

(a) 34.3

(b) 30.3

(c) 32.3

(d) None of these

36. The Range of the marks 24, 12, 16, 11, 40 and 42 obtained by 6 students is 31 marks. If the highest mark is omitted, then what will be the percentage change in the range?

(a) 5.5%

(b) 5.45%

(c) 6.5%

(d) 6.45%



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37. What will be the coefficient of dispersion (about mean) of the following data?

x(marks)	5	10	15	20	25	Total
f(frequency)	6	7	8	11	8	40

(a) 1.323

(b) 1.363

(c) 0.363

(d) None of these

$$\frac{31}{156} \times 100$$

38. What will be the standard deviation of the following data?

x	10	11	12	13	14	Total
f	3	12	18	12	3	48

- (a) 1
(b) 1.5
(c) 2
(d) 2.5
39. Two samples of sizes 40 and 50 respectively have the same mean 53, but different standard deviations 19 and 8 respectively. What is the Standard Deviation of the combined sample of size 90?
(a) 11
(b) 12
(c) 13
(d) 14
40. The first of two samples has 100 items with mean 15 and standard deviation (s.d.) 3. If the whole group has 250 items with mean 15.6 and s.d. $\sqrt{13.44}$. What will be the s.d. of the second group?
(a) 1
(b) 3
(c) 4
(d) 5
41. Amartya Sen was awarded the Nobel Prize for his contribution to -----
a) Monetary Economics
b) Welfare Economics
c) Econometrics
d) Development Economics
42. With which form of Economy is the term "Laissez-faire" associated?
a) Capitalist Economy
b) Socialist Economy
c) Mixed Economy
d) Command Economy
43. Who wrote a book describing the theory of economic drain of India during British rule?
a) Lala Lajpat Rai
b) Mahatma Gandhi
c) Pt. Jawahar Lal Nehru
d) Dadabhai Naoroji

44. Who among the following developed the concept of Human Development Index (HDI)?

- a) Amartya Sen
- b) A.S.Kadir
- c) Alva Myrdal
- d) Mehboob-ul-Haq

45. Consider the following actions which the Government can take :

- i. Devaluing the domestic currency
- ii. Reduction in the export subsidy
- iii. Adopting suitable policies which attract greater FDI and more funds from FIIs

Which of the above action/actions can help in reducing the current account deficit ?

- a) i and ii
- b) ii and iii
- c) iii only
- d) i and iii

46. Arrange the following Acts in the order in which they came into force.

- i. The Monopolies Restrictive Trade Practices Act
- ii. Indian Contract Act
- iii. The Sale of Goods Act
- iv. The Foreign Exchange Management Act

- a) (ii), (iii), (i), (iv)
- b) iii), (i), (iv) and (ii)
- c) (i), (ii), (iii), (iv)
- d) (iv), (iii), (ii), (i)



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47. News papers are subject to:

- a) C.S.T. of 1%
- b) C.S.T. of 3%
- c) Exemption under C.S.T.
- d) None of the above

48. Mahila Samridhi Yojana started in?

- a) 1992
- b) 1993
- c) 1994
- d) 1995

49. Which of the following is not advantage of full capital account convertibility?

- a) Encourages import
- b) Boosts exports
- c) Easy access to forex
- d) Promotes trade and capital flows between nations

50. Theory of International Trade given by Adam Smith is
- a) Comparative advantage Theory
 - b) Eclectic Theory
 - c) Absolute advantage Theory
 - d) Spillover Theory
51. Which of the following is an indicator of Income Inequality?
- a) Wholesale Price Index
 - b) Consumer Price Index
 - c) Gini Index
 - d) None of these
52. The trade agreements between India and Sri Lanka fall under which category?
- a) Preferential Trade Agreement
 - b) Free Trade Agreement
 - c) Customs Union Agreement
 - d) Common Market Agreement
53. Identify an example of Corporate Debt Restructuring.
- a) Buy Back of Shares
 - b) Redemption of Equity Shares
 - c) Indexing of Interest payments to earnings
 - d) None of these
54. 'Devaluation' means:
- a) converting rupee into gold
 - b) lowering of the value of one currency in comparison of some foreign currency
 - c) making rupee dealer in comparison to some foreign currency
 - d) None of these
55. Arbitrage implies:
- a) practice of taking advantage of price difference in two markets
 - b) the practice of under invoicing exports
 - c) the practice of dumping viz., selling goods in a foreign market cheaper than the home market
 - d) the practice of over-invoicing imports
56. Which one of the following was launched with the objective of helping the poor in rural area to become self-employed?
- a) DPAP
 - b) IRDP
 - c) TRYSEM
 - d) DDP

57. Which among the following treaties provide for a common currency for the member countries of European communities?

- a) Brussels Treaty
- b) Geneva Convention
- c) Maastricht Treaty
- d) Treaty of Versailles

58. Given below are the lists of authors and books. You are required to match the following lists and choose the correct combinations.

Authors	Books
(i) Raghuram Rajan	(A) Social Harmony
(ii) Shashi Tharoor	(B) Pax Indica
(iii) Narendra Modi	(C) Money Mischief
(iv) Milton Friedman	(D) The Third Pillar

- a) i-D, ii-B, iii-A, iv-C
- b) i-C, ii-A, iii-D, iv-B
- c) i-C, ii-A, iii-B, iv-D
- d) i-A, ii-C, iii-D, iv-B

59. Who among the following received the Nobel Prize in economics for integrating technological innovation into long run macro economic analysis?

- a) Paul Romer
- b) Mohd Yunus
- c) Richard H Thaler
- d) Jean Dreze

60. Who among the following is presently the chief economist of IMF?

- a) Kenneth Rogoff
- b) Gita Gopinath
- c) Dr. Manmohan Singh
- d) Jim Yong Kim

61. If $a+b+c = 0$, find the value of $\frac{a^2 + b^2 + c^2}{c^2 - ab}$

- a) 0
- b) 2
- c) 3
- d) None of these

$$\frac{0^2 + 0^2 + 0^2}{c^2 - 0} = 0$$

62. The sum to n terms of the series
 $1.2 + 2.3 + 3.4 + 4.5 + \dots$ is

a) n^3

b) $\frac{n(n+1)(n+2)}{3}$

c) $\frac{n(n+1)(n+2)}{6}$

d) $\frac{n(n+1)(2n+1)}{3}$

$5 \cdot 6$

$$\frac{1(1+1)(1+2)}{3} = \frac{1 \cdot 2 \cdot 3}{3} = 2$$

$2 \times 1 + 1 = 3$

63. Letters of the word DIRECTOR are arranged in such a way that all the vowels come together. Find out the total number of ways for making such arrangement.

a) 4320

b) 2720

c) 2160

d) 1120

A E I O U

64. The ratio of number of boys and girls in a school of 720 students is 7:5. How many more girls should be admitted to make the ratio 1:1?

a) 90

b) 120

c) 220

d) 240

65. 3 men can complete a piece of work in 6 days, 5 women can complete the same work in 18 days. In how many days will 4 men and 10 women together complete the same work?

a) 4 days

b) 5 days

c) 2 days

d) 3 days

6 5 18

66. The difference between the interests received from two different banks on Rs. 500 for 2 years, is Rs. 2.50. The difference between their rates is:

a) 1%

b) 0.5%

c) 2.5%

d) 0.25%

67. A man goes down stream at x km/h and upstream at y km/h. the speed of the boat in still water is

a) $0.5(x+y)$

b) $0.5(x-y)$

c) $x+y$

d) $x-y$



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x km

68. If a and b are odd numbers, then which of the following is even?

- (a) $a + b$
- ✓ (b) $a + b + 1$
- ✓ (c) ab
- ✓ (d) $ab + 2$

69. On dividing a certain number by 342, we get 47 as remainder. If the same number is divided by 18, what will be remainder?

- (a) 13
- (b) 12
- (c) 11
- (d) 1

$$\begin{array}{r} 342 \overline{) 342} \\ \underline{342} \\ 0 \end{array}$$

$$\begin{array}{r} 24 \\ \underline{-10} \\ 14 \end{array}$$

70. The sum of how many terms of the series $6 + 12 + 18 + 24 + \dots$ is 1800?

- (a) 1
- (b) 24
- (c) 20
- (d) 18

$$\begin{array}{r} 24 \\ \times 24 \\ \hline 96 \\ 480 \\ \hline 576 \end{array}$$

$$\begin{array}{r} 1800 \\ \div 6 \\ \hline 300 \end{array}$$

$$\begin{array}{r} 6 \overline{) 12} \\ \underline{12} \\ 0 \end{array}$$

71. If $x:y = 3:4$, then $(4x + 5y):(5x - 2y) = ?$

- (a) 32:7
- (b) 7:32
- (c) 24:7
- (d) 7:24

$$\begin{array}{l} (4 \times 3 + 5 \times 4) : (5 \times 3 - 2 \times 4) \\ (12 + 20) : (15 - 8) \\ 32 : 7 \end{array}$$

72. Walking at $\frac{5}{6}$ of its usual speed, a train is 10 minutes too late. What will be its usual time to cover the journey?

- (a) 50 min
- (b) 55 min
- (c) 60 min
- (d) 45 min

$$\frac{5}{6} \times 60 = 50$$

73. At what percentage above the C.P. must an article be marked so as to gain 33% after allowing a customer a discount of 5%?

- (a) 50% above C.P.
- (b) 40% above C.P.
- (c) 60% above C.P.
- (d) None of these.

$$\begin{array}{r} 100 \\ \times 1.05 \\ \hline 105 \\ \times 1.33 \\ \hline 139.65 \end{array}$$

74. The difference between the simple interest on a certain sum at the rate of 10% per annum for 2 years and compound interest which is compounded every 6 months is Rs. 124.05. What is the principal sum?
- (a) Rs. 6,000
 (b) Rs. 8,000
 (c) Rs. 12,000
 (d) None of these

75. Value of $\sqrt[3]{(81)^{-2}}$ is

- a) $\frac{1}{3}$
 b) $\frac{1}{9}$
 c) $\frac{1}{81}$
 d) 9

$\frac{1}{9}$

76. When two dices are tossed simultaneously, the probability of getting a sum of 7 on dices is

- a) $\frac{1}{6}$
 b) $\frac{5}{36}$
 c) $\frac{7}{36}$
 d) $\frac{5}{6}$

$\frac{5}{36}$

77. If the square of m varies as the cube of n , and $m = 3$ when $n = 4$. Find the value of n when $m = \frac{1}{\sqrt{3}}$.

- a) $\frac{3}{4}$
 b) $\frac{4}{3}$
 c) $\frac{9}{64}$
 d) $\frac{3}{8}$



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78. 17 students are present in a class. In how many ways, can they be made to stand in 2 circles of 8 and 9 students?

- a) ${}^{17}C_9 \times 9! \times 8!$
 b) ${}^{17}C_9 \times 8! \times 7!$
 c) $8! \times 7!$
 d) ${}^{17}C_8 \times 8! \times 9!$

79. A, B, C are sets, find out the correct statement from the following.

- a) $(A-C) \cap (B-C) = A \cap (B-C)$
 b) $A \cap (B-C) = (A \cup B) - (A \cup C)$
 c) $A \cup (B \cap C) \neq (A \cup B) \cap C$
 d) Both A and C

80. If $x + \frac{1}{x} = 4$ the value of $x^4 + \frac{1}{x^4}$ will be

- a) 196

Direction (Question No.81-85): Read the passage carefully and choose the best answer to each question out of the four alternatives

Organizations are institutions in which members compete for status and power. They compete for the resources of organization, for example, finance to expand their own departments, for career advancement and for power to control the activities of others. In pursuit of these aims, groups are formed and sectional interests emerge. As a result, policy decisions may serve the ends of the political and career systems rather than those of the concern. In this way, the goals of the organization may be displaced in favour of sectional interests and individual ambition. These preoccupations sometimes prevent the emergence of organic systems. Many of the electronics firms in their study had recently created research and development departments employing highly qualified and well paid scientists and technicians. Their high pay and expert knowledge were sometimes seen as a threat to the established order of rank, power and privilege. Many senior managers had little knowledge of the technicalities and possibilities of new development and electronics. Some felt that close co-operation with the experts in an organic system would reveal the ignorance and so that their experience was now redundant.

81. The theme of the passage is

- a) Groupism in organizations
- b) Individual ambitions in organizations
- c) Frustration of senior managers
- d) Emergence of sectional interests in organizations

82. The author makes out a case for

- a) Organic system
- b) Research and development in organizations
- c) An understanding between senior and middle level executives
- d) A refresher course for senior managers

83. The author tends to see the senior managers as

- a) Ignorant and incompetent
- b) A little out of step with their work environment
- c) Jealous of the younger colleagues
- d) Robbed of their rank, power and privilege

84. Policy decision in organization would involve

- a) Cooperation at all levels in the organization
- b) Modernization of the organization
- c) Attracting highly qualified personnel
- d) Keeping in view the larger objectives of the organization

85. 'Organic system' as related to the organization implies its

- a) Growth with the help of expert knowledge
- b) Growth with inputs from science and technology
- c) Steady all round development
- d) Natural and unimpeded growth

86. He ever works as as he should.
- a) hardly, hard
 - b) hard, hardly
 - c) hard, hard
 - d) hardly, hardly
87. You can't smoke here. Please your cigarette.
- a) put up with
 - b) put down
 - c) put out
 - d) put away
88. The idiom 'spick and span' means
- a) lean and thin
 - b) neat and clean
 - c) honest and true
 - d) hale and hearty
89. Synonym of 'complaisant' ...
- a) desirous of pleasing
 - b) desirous of improving
 - c) obliging
 - d) ready to condone
90. Synonym of 'contraband'
- a) excluded by law
 - b) prohibited
 - c) illegal traffic
 - d) smuggled goods
91. Many young men were at _____ street corners for the coffee bar to be open.
- a) Hanging about
 - b) Hanging on
 - c) Hanging together
 - d) Hanging back
92. Through a _____ circumstance, they unexpectedly found themselves on the same bus with Uncle Morris.
- a) Fortuitous
 - b) Elusive
 - c) Referential
 - d) Lambent
93. Choose the word, which has opposite in meaning to Expurgate
- a) Stain
 - b) Admit
 - c) Entertain
 - d) Renew



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94. Crumb is related to Bread in the same way as Morsel is related to
- Fruit
 - Biscuit
 - Food
 - Cake
95. To "bury the hatchet" means
- To dispute over small things
 - To destroy
 - To make peace
 - To repair a costly furniture
96. Rain disrupted the last day's play between India & Sri Lanka.
- The last day's play of India & Sri Lanka was disrupted by rain.
 - India & Sri Lanka's play of the last day was disrupted by rain.
 - The last day's play between India & Sri Lanka was disrupted by rain.
 - India & Sri Lanka's last day play were disrupted by rain.
97. People claim to have seen the suspect in several cities
- The suspect is being in several cities
 - The suspect has been the people in several cities
 - The suspect is claimed to have been seen in several cities.
 - The suspect was seen by people in several cities
98. He told me that he once met _____ alien from space. This alien didn't need oxygen to live; it didn't have _____ nose. That's _____ hard story to believe.
- a, the, an
 - an, a, a
 - an, the, an
 - a, a, a
99. I just remembered that I _____ (not pay) the rent yet. I am surprised that the landlord _____ (not ring) me up and reminded me.
- Had not paid, has not rung
 - Have not paid, has not rung
 - Had not paid, had not rung
 - Have not paid, had not rung
100. Although it is necessary to carry a relatively large number of provisions when traversing the Australian Outback, it is _____ that you keep your pack from becoming too _____.
- Imperative, compact
 - Important, convoluted
 - Crucial, ponderous
 - Mandatory, insulated