



100 Questions

1. If $A = \{1, 2, 3, 4, 5, 7, 8, 9\}$ and $B = \{2, 4, 6, 7, 9\}$ then how many proper subset of $A \cap B$ can be created :



a) 16



b) 15

b) 32

d) 31

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2. Find the area under the curve $f(x) = x^2 + 5x + 2$ with the limits 0 to 1



a) 3.833



b) 4.388

c) 4.833

d) 3.338

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3. If p^{th} term of an AP is q and its q^{th} term is p , then what will be the value of $(p+q)^{\text{th}}$ term?



a) 0



b) 1

c) $p+q-1$

d) $2(p+q-1)$

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4. The maxima and minima of the function $y = 2x^3 - 15x^2 + 36x + 10$ occurs respectively at



a) $x=2$ and $x=3$



b) $x=1$ and $x=3$

c) $x=3$ and $x=2$

d) $x=3$ and $x=1$

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5. If Mean (X) is = 10 and mode (Z) is = 7, then find out the value of median (M)

a)	b)17
9	d)4.33

b)
3



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6. Which one of the following is a source of primary data?



a) Government records



b) Research Articles

c) Journals

d) Questionnaire filled by enumerators

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7. If the coefficient of variation and standard deviation are 30 and 12 respectively, then the arithmetic mean of the distribution is



a) 40



b) 36

c) 25

d) 19

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8. _____ is based on all the observations and _____ is based on the central fifty percent of the observations

a) Mean deviation, Range	b) Mean deviation, quartile deviation
c) Range, standard deviation	d) Quartile deviation, standard deviation



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9. The relationship between two variables x and y is given by $4x - 10y = 20$. If the median value of the variable x is 10 then what is median value of variable y ?



a) 1.0



b) 2.0

c) 3.0

d) 4.0

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10. From the following data extract the index number by laspeyre's method:

P

$$1Q = 460, 1P0Q = 140, P1Q = 350, P0Q1 = 200$$

a) 250	b) 230
c) 238.24	d) 276.04



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11. Which of the following index measures the changes month to month in the cost of a representative “basket” of from goods & services of the type which are bought by a household?

typical

a)Consumer Price Index	b)Laspeyre’s Index
c)Fisher’s Index	d)Paasche’sIndex





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12. Fisher's Index is called an ideal index number because it satisfies



a) Factors reversal test



b) Time reversal test

c) Both factor and time reversal test

d) Circular test

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13. If Laspeyre's Index is 119 and Paasche's Index is 112, then Fisher's Index number will be:



a) 113.99



b) 115.45

c) 115.89

d) 151.98

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14. In price index, when a new commodity is required to be added, which of the following index is used?



a) Shifted price index



b) Splicing price index

c) Deflating price index

d) Value price Index

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15. Let $A = \{1, 2, 3\}$ and consider the relation $R = \{(1, 1), (2, 2), (3, 3), (1, 2), (2, 3), (1, 3)\}$, Then R is:

- | | |
|--------------------------------|--------------------------------------|
| a) symmetric and transitive | b) reflexive but not transitive |
| c) reflexive but not symmetric | d) neither symmetric, nor transitive |






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16. There are 20 points in a plane area. How triangles can be formed by these points if 5 points are many collinear?

a)550	b)560
c)1130	d)1140

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17. In a G.P. 5th term is 27 and 8th term is 729. Find its 11th term.



a) 729



b) 6561

c) 2187

d) 19683

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18. If $y = x^2$ then dy/dx at $x=1$ is equal to



(a) 3,592.11



(b) 3,492.11

(c) 3,392.11

(d) None

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19. Suresh's sister is the wife of Ram. Ram is Rani's brother, Ram's father is MadhurSheetalis Ram's grandmother. Remais sheetal'sdaughter – in –law. Rohit is Rani's brother's son. Who is Rohit to Suresh?

- (a) Brother-in-law
- (b) Son
- (c) Brother
- (d) Nephew



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20. Which is the left part of the table providing the description of the rows?

a)Caption	b)Box head
c)Stub	d)Body



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21. Which one of the following is not a method of measures of dispersion?

a) 9%



b) 8%



c) 11

d) 10%

%

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22. There are six children playing football namely A, B, C, D, E, and F, A, & E are brothers. F is sister of E. C is the only son of A's uncle. B & D are daughters of the brother of C's father. How D is related to A?



a) Uncle



b) Cousin

c) Niece

d) Sister

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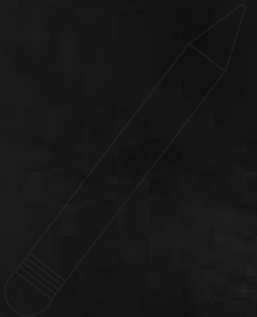
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23. The suitable formula for computing the number of the class intervals is:

a) $3.322 \log N$	b) $0.322 \log N$
c) $1 + 3.322 \log N$	d) $1 - 3.322 \log N$



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24. The equations of the two lines of regression are $4x+3y+7=0$ and $3x+4y+8=0$, Find the correlation coefficient between x and y ?



a) -0.75



b) 0.25

c) -0.92

d) 1.25

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25. If the regression equations are $2x + 3y + 1 = 0$ and $5x + 6y + 1 = 0$, then the mean of x and y respectively are



a) -1, -1



b) -1, 1

c) 1, -1

d) 2, 3

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26. If $b_{yx} = 0.5$, $b_{xy} = 0.46$ then the value of correlation coefficient r is:



a) 0.23



b) 0.25

c) 0.39

d) 0.48

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27. The coefficient of rank correlation between the ranking of following 6 students in two subjects Mathematics and Statistics is :

Mathematic	3	5	8	4	7	1
s Statistics	6	4	9	8	1	0

- a) 0.25
- b) 0.35
- c) 0.38
- d) 0.20



100 Questions

28. A machine worth Rs. 4,90,740 is depreciated at 15% on its opening value each year. when its value would reduce to Rs. 2,00,000



a) 5 years 5 months



b) 5 years 6 months

c) 5 years 7 months

d) 5 years 8 months

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29. The number of ways 4 boys and 3 girls can be seated in a row so that they are alternate is:



a) 12



b) 288

c) 144

d) 256

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30. If $n_P_r = 3024$ and $n_C_r = 126$, then find n and r



a) 9, 4



b) 10, 3

c) 12, 4

d) 11, 4

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31. If Rs. 64 Amount to Rs. 83.20 in 2 years, what will Rs. 86 Amount to in 4 years at the same Rate percent per annum?



a)Rs. 137.60



b)Rs. 147.60

c)Rs. 145.34

d)Rs. 117.60

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32. How many 3 digit odd numbers can be formed using the digits 5, 6, 7, 8, 9, if the digits can be repeated?



a)55



b)75

c)65

d)85

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33. In a joint family, there are father, mother, 3 married sons and unmarried daughter. Out of the sons, two have 2 daughters each and one one has a son only. How many female members are there in the family?

a) 3	b) 6
c) 9	d) 5

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34. When Rani saw Vinit, she recollected that “He is the brother of My grandfather’s son.” How is Rani related to Vinit?



a) Aunt



b) Daughter

c) Sister

d) Niece

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35. Annanyais mother of Satyaand Shyam is the son of Bhima. Shiva is brother of Annanya. If Satya is sister of Shyam, how is Bhima related to Shiva?



a) Son



b) Cousin

c) Brother-in-law

d) Son-in-law

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36. Sumanis daughter-in-law of Rakeshand sister-in-law of Rajesh. Ramesh is the son of Rakeshand only brother of rajesh. Find the relation of Sumanwith Ramesh.



a) Sister-in-law



b) Cousin

c) Aunt

d) Wife

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37. Skewness of Normal Distribution is



a) Negative



b) Positive

c) zero

d) Undefined

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38. Pearson's correlation coefficient between x and y is

a) $\frac{\text{Cov}(x,y)}{S_x S_y}$	b) $\frac{\text{Cov}(x,y)}{S_x S_y}$
c) $\frac{\text{Cov}(x,y)}{\sigma_x \sigma_y}$	d) None



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100 Questions

39. If a Poission distribution in such that $P(X=2)=P(X=3)$ than the variance of the distribution is

a) $\sqrt{3}$	b) 3
c) 6	d) 9



100 Questions

40. The standard Deviation of Binomial distribution is

a) npq	b) \sqrt{np}
c) np	d) \sqrt{q}
	e) np
	f) \sqrt{npq}



100 Questions

41. A farmer borrowed Rs. 3600 at the rate of 15% simple interest per Annum. At the end of 4years, he cleared this account by paying Rs. 4000 and a cow. The cost of the cow is:



a)Rs. 1000



b)Rs. 1200

c)Rs. 1550

d)Rs. 1760

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42. How much amount is required to be invested ever year so as to accumulate Rs. 5,00,000 at the end of 12 years if interest is compounded annually at 10%? (Where $A(12, 0.1) = 21.384284$)



a)Rs. 23381.65



b)Rs. 24385.85

c)Rs. 26381.65

d)Rs. 28362.75

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43. The effective annual rate of interest corresponding to a normal rate of 6% per annum payable half yearly is:



a) 6.06%



b) 6.07%

c) 6.08%

d) 6.09%

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44. 10 years ago the earning per share (EPS) of ABC Ltd. was Rs. 5 share. Its EPS for this year is Rs. 22. Compute at what rate, EPS of the company grow annually?

- | | |
|-----------|-----------|
| a) 15.97% | b) 16.77% |
| c) 18.64% | d) 14.79% |

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100 Questions

45. If 'FORZEN' is decoded as 'OFAPSG'. Tick the right option that depicts "MOLTEN" written in this way?



a) OFPOMN



b) OFSMPN

c) OFUMPN

d) OFUNPN

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46. Radha moves towards South-East a distance of 7 km. then she moves towards West and travels a distance of 14 km. From here she moves towards North-West a distance of 7 km and finally she moves a distance of 4km towards east. How far is she now from the starting point?



a) 3 km



b) 4 km

c) 10 km

d) 11 km

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100 Questions

47. P, Q, R and S are playing a game of carom P, R, and S, Q playing a game of carom P, R and S, Q are partners. 'S' is to are right of 'R'. If 'R' is facing west, then 'Q' is facing which the direction?

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







100 Questions



48. Pointing to a man in photograph, Khushi says, "This man's son's sister is my mother-in-law." How is the Khushi's husband related to the man in the photograph?

a) Grandson	b) Son
c) Son in law	d) Cousin



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49. A machine is made of two parts A and B. The manufacturing Process of each part is such that probability of defective in part A is 0.08 and that B is 0.05. What is the probability that the assembled part will not have any defect?

a)0.93	b)0.864
4	d)0.874

c)0.85

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50. If $P(A) = \frac{1}{3}$, $P(B) = \frac{3}{4}$ and $P(A \cup B) = \frac{1}{1}$ then $P\left(\frac{B}{A}\right)$ is:

a) $\frac{1}{6}$	b) $\frac{4}{9}$
c) $\frac{1}{2}$) $\frac{1}{8}$

d

)



100 Questions

51. The probability that a leap year has 53 Mondays is:

a) $\frac{1}{7}$	b) $\frac{2}{3}$
c) $\frac{2}{7}$) $\frac{3}{5}$

d

)



100 Questions

52. Raju invests Rs. 20,000 every year in a deposit scheme starting from today for next 12 years. Assuming that interest rate on this deposit is 7% per annum compounded annually. What will be the future value of this annuity? Given that $(1+0.07)^{12} \Rightarrow 2.25219159$.

a)Rs. 540,526	b)Rs. 382,813
c)Rs. 643,483	d)Rs. 357,769



100 Questions

53. Mr. A invested Rs. 10,000 every year for next for 3 years at the interest rate of 8 percent per annum compounded annually. What is future value of the annuity?

a)



32644



c)34264

b)32464

d)36442

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54. Mr. Prakash invested money in two schemes 'A' and 'B' offering compound interest at the rate of 8% and 9% per annum respectively. If the total amount of interest accrued through these two schemes together in two years was Rs. 4818.30 and total amount invested was Rs. 27,000. What was the amount invested in scheme 'A'?



a)Rs. 12,000



b)Rs. 12,500

c)Rs. 13,000

d)Rs. 13,500

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55. A sum of money invested of compound interest doubles itself in four years. In how many years it becomes 32 times of itself at the rate of compound interest.



a) 12 years



b) 16 years

c) 20 years

d) 24 years

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56. One morning a boy starts walking in a particular direction for 5 km and then takes a left turn and walks another 5 km thereafter he again takes left turn and walks another 5 km and at last he takes right turn and walks 5 km. Now he sees his shadow in front of him. What direction he did start Initially?



a)South



b)North

c)West

d)East

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57. It is 3' o clock in a watch. If the minute hand points towards the North-East then the hour hand will point towards the



a) South



b) South-west

c) North-West

d) South-East

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58. Six persons A, B, C, D, R, and F are sitting in two rows with three persons in each row. Both rows are in front of each other. E is not at end of the any row and D is second left to the F, C is neighbour of E and diagonally opposite to D. If B is neighbour of F who is in front of C then who is sitting diagonally to F?

a)C	b)E
c)A	d)D



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59. Find the odd man out: 34, 105, 424, 2123, 12756



a)12756



b)2123

c)424

d)34

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60. The speeds of a number of bikes follow a normal model with a mean of 83km/ hr and a standard deviation of 9.4 km/hr. Find the probability that a bike picked at random is travelling at more than 95 km/hr?

a) 0.158	b) 0.38
c) 0.49	d) 0.278



100 Questions

61. Suppose A and B are two independent events with probabilities $P(A) \neq 0$ and $P(B) \neq 0$. Let A' and B' be their complements. Which one of the following statements is FALSE?



a) $P(A \cap B) = P(A) P(B)$



b) $P(A/B) = P(A)$

c) $P(A \cup B) = P(A) + P(B)$

d) $P(A \cap B') = P(A') P(B')$

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62. The theorem of Compound Probability states that for any two events A and B.



a) $P(A \cap B) = P(A) \times P(B/A)$



b) $P(A \cup B) = P(A) \times P(B/A)$

c) $P(A \cap B) = P(A) \times P(B)$

d) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$

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63. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum?



a) 9%



b) 8%

c) 11%

d) 10%

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64. Rs. 5,000 is invested every month end in an account paying interest @ 12% per annum compounded monthly. What is the future value of this annuity just after making 11th payment?
(Given that $(1.01)^{11} = 1.1156$)

a)Rs. 57,800	b)Rs. 56,100
c)Rs. 56,800	d)Rs. 57,100



100 Questions

65. If the roots of the equation $x^2 - px + q = 0$ are in the ratio 2:3, then



a) $p^2 = 25q$



b) $p^2 = 6q$

c) $6p^2 = 5q$

d) $6p^2 = 25q$

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66. A sum of money doubles itself in 4 years at compound interest rate. In how many years this sum will become 8 times at same compound interest rate?

a) 12 years	b) 14 years
c) 16 years	d) 18 years

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67. Sinking fund factor is the reciprocal of :



a) Present value interest factor of a single cash flow



b) Present value interest factor of an annuity

c) Future value interest factor of an annuity

d) Factor value interest factor of a single cash flow

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68. Find the missing number in the following series? 3, 5, 5, 19, 7, 41, 9, ?, 11, 109



a) 71



b) 61

c) 69

d) 79

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69. P, Q, R, S and T are sitting in a line facing West. P and Q sitting together. R is sitting at south end and S is sitting at North are end. T is neighbour of Q and R. Who is sitting the middle?

a)P	b)Q
c)R	d)S



100 Questions

70. A man is facing west. He turns 45 degree in the clockwise direction and then another 180 degree in the same direction and then 270 degree in the anticlockwise direction Find which direction he is facing now?



a) South-East



b) West

c) South

d) South-West

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71. In certain code language, if TOUR is written as 1234, CLEAR is written 5678 and SPARE is written as 90847, find the code for CARE?

a)1247	b)4847
c)5247	d)5847

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72. Mean deviation is minimum when deviation are taken from:



a) Mean



b) Median

c) Mode

d) Range

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73. If a number is selected at random from the first 50 numbers, what will be the probability that the selected number natural is a multiple of 3 and 4 ?



a) $5/50$



b) $2/25$

c) $3/50$

d) $4/25$

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74. If the first quartile is 56.50 and the third quartile is 77.50, then the coefficient of quartile deviation is

a) 638.09	b) 15.67
c) 63.80	d) 156.71



100 Questions

75. If three coins are tossed simultaneously, what is the probability of getting two heads together?

a)



$1/4$



c) $5/8$

b) $1/8$

d) $3/8$

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100 Questions

76. What will be the value of k , if the roots of the equation $(k-4)x^2 - 2kx + (k+5) = 0$ are equal?

a) 1



b) 20



8

d) 21

c) 19

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100 Questions

77. If $2x + 5 > 3x + 2$ and $2x - 3 < 4x - 5$ the 'x' can take which of the following value?

a) 4	b) -4
c) 2	d) -



100 Questions

78. If the cost of 3 bags and 4 pens is Rs. 257 whereas the cost of 4 bags and 3 pens is Rs. 324, then the cost of one bag is:

a) 8	b) 24
c) 3	d) 75

2



100 Questions

79. If $\log_{10} 2 = y$ and $\log_{10} 3 = x$, then the value of $\log_{10} 15$ is:



a) $x-y+1$



b) $x+y+1$

c) $x-y-1$

d) $y-x+1$

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100 Questions

80. $\log_3 4 \cdot \log_4 5 \cdot \log_5 6 \cdot \log_6 7 \cdot \log_7 8 \cdot \log_8 9$ equal to:

a) 3	b) 2
c) 1	d) 0

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100 Questions

81. The number of subsets of the set $\{0, 1, 2, 3\}$ is



a) 2



b) 4

c) 8

d) 16

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100 Questions

82. Find the next number in the given sequence? 11, 17, 39, 85, ?, 281, 447

a)



133



c)153

b)143

d)163

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100 Questions

83. $\int (2x-3)^6 dx$ is

a) $\frac{(2x-3)^6}{6}$

b) $\frac{(2x-3)^6}{2}$

c) $\frac{(2x-3)^6}{12}$

d) $\frac{(2x-3)^6}{3}$

)

)

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100 Questions

84. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?

a) 246173	b) 214673
c) 216473	d) 214763

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100 Questions

85. Give for more than type and less than type of distribution intersect at

a) Mean	b) Median
c) Mode	d) Origin

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100 Questions

86. The median of the observation 42, 72, 35, 92, 67, 85, 72, 81, 51, 56 is



a) 69.5



b) 72

c) 64

d) 61.5

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100 Questions

87. If the sum of square of the values equals to Number of observation are 30 and Standard deviation is 3390. 7, what is th mean value of the above

a)14	b)11
c)8	d)5

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100 Questions

88. The mean of 50 observations is 36. If two observations 30 and 42 are to be excluded, then the mean of the remaining observations will be:

- | | |
|------|-------|
| a) 3 | b) 38 |
| 6 | d) 50 |
- c) 48



100 Questions

89. A sum of money is to be distribution among A, B, C, D in the proportion of the 5:2:4:3. If C gets Rs. 1000 more than D, what is B's share?

a) 2000	b)1500
c)2500	d)1000

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100 Questions

90. By simplifying $(2ab^3)^6 / (4a^3b)^2 \times (a^2b^2)$, the answer will be

a) 4^2a^2b	b) 4^2a^2b
c) $4a^{33}b^3$	d) $4a^{22}b^3$

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100 Questions

91. A group of 400 soldiers posted at border area had a provision for 31 days. After 28 days 280 soldiers from this group were called back. Find the number of days for which the remaining ration will be sufficient?

a)

3



c)



8

b)6

d)10

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100 Questions

92. The solution of the following system of linear equations $2x-5y+4=0$ and $2x+y-8 = 0$ will be

a)(2,	b)(1, -3)
-3) c)(3,	d)(-2,
2)	2)



100 Questions

93. If $x^5 + y^5 = 0$ then $\frac{dy}{dx}$ is

a) $\frac{y+x^4}{x+y^4}$	b) $\frac{y-x^4}{y^4-x}$
c) $\frac{x-y^4}{x^4-y}$	d) $\frac{x+y^4}{x^4+y}$

d

)



100 Questions

94. If Arithmetic Mean and Geometric Mean between Two numbers are 5 and 4 respectively, then these numbers are



a) 2 & 3



b) 2 & 8

c) 4 & 6

d) 1 & 16

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100 Questions

95. $\frac{4x dx}{x^2 + 1}$ is



a) $\frac{1}{2} \log \left(\frac{17}{5} \right)$



b) $2 \log \left(\frac{17}{5} \right)$

c) $\frac{1}{2} \log \left(\frac{5}{17} \right)$

d) $2 \log \left(\frac{5}{17} \right)$

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100 Questions

96. If the variance of a random variable 'x' is 17, then what is variance of $y = 2x + 5$?



a)34



b)39

c)68

d)78

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100 Questions

97. If the variance of given data is 12, and their mean value is 40, what is coefficient variation (CV)?

a) 5.66%	b) 6.66%
c) 7.50%	d) 8.65%



100 Questions

98. In a given set if all data are of same value then variance would be:



a) 0



b) 1

c) -1

d) 0.5

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100 Questions

99. If Arithmetic mean between two numbers is 5 and Geometric mean is 4 then what is the value of Harmonic mean?

a)	b)3.4
3.2	d)3.6

c)3.5



100 Questions

100. The average age of 15 students in a class is 9 years. Out of them, the average age of 5 students is 13 years and that of 8 students is 5 years. What is the average of remaining 2 students?



a) 5 years


b) 9 years

c) 10 years

d) 15 years

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