

1. If  $\sqrt[3]{a} + \sqrt[3]{b} + \sqrt[3]{c} = 0$  then the value of  $\left(\frac{a+b+c}{3}\right)^3$  is equal to
- A.  $abc$   
B.  $9abc$   
C.  $1/(abc)$   
D.  $(1/9)abc$
2. The value of  $[\log_{10}(5 \log_{10} 100)]^2$  is :
- A. 1  
B. 2  
C. 10  
D. 25
3. If  $\alpha$  and  $\beta$  are roots of the quadratic equation  $x^2 - 2x - 3 = 0$ , then the equation whose roots are  $\alpha + \beta$  and  $\alpha - \beta$  is :
- A.  $x^2 - 6x - 8 = 0$   
B.  $x^2 - 6x + 8 = 0$   
C.  $x^2 + 6x + 8 = 0$   
D.  $x^2 + 6x - 8 = 0$
4. The largest side of a triangle is 3 times the shortest side and third side is 4 cm shorter than largest side. If the perimeter of the triangle is at least 59 cm, what is the length of shortest side?
- A. Less than 7 cm  
B. Greater than or equal to 7 cm  
C. Less than 9 cm  
D. Greater than or equal to 9 cm
5. If  $\alpha$  and  $\beta$  are roots of the equation  $x^2 - (n^2 + 1)x + \frac{1}{2}(n^4 + n^2 + 1) = 0$ , then the value of  $\alpha^2 + \beta^2$  is :
- A.  $2n$   
B.  $n^2$   
C.  $2n^2$   
D.  $n^3$



6. Suppose you have decided to make a Systematic Investment Plan (SIP) in a mutual fund with ₹ 1,00,000 every year from today for next 10 years where you get return at the rate of 10% per annum compounded annually. What is the future value of this annuity? Given  $1.1^{10} = 2.59374$ .
- A. ₹ 17,35,114
  - B. ₹ 17,53,411
  - C. ₹ 17,35,411
  - D. ₹ 17,53,114
7. Ms. Paul invested ₹ 1,00,000 in a mutual fund scheme in January 2018. After one year in January 2019, she got a dividend amounting to ₹ 10,000 for first year, ₹ 12,000 for second year, ₹ 16,000 for third year, ₹ 18,000 for fourth year and ₹ 21,000 for fifth year in January 2023. What is Compounded Annual Growth Rate (CAGR) of dividend return? Given  $1.2038^4 = 2.1$ .
- A. 20.38%
  - B. 18.59%
  - C. 16.36%
  - D. 15.89%
8. Mr. Ram invested a total of ₹ 1,00,000 in two different banks for a fixed period. The first bank yields an interest of 9% per annum and second, 11% per annum. If the total interest at the end of one year is 9.75% per annum, then the amount invested in these banks are respectively:
- A. ₹ 52,500, ₹ 47,500
  - B. ₹ 62,500, ₹ 37,500
  - C. ₹ 57,500, ₹ 42,500
  - D. ₹ 67,500, ₹ 32,500
9. A company want to replace its existing tool room machine at the end of 10 years, the expected cost of machine would be ₹ 10,00,000. If management of the company creates a sinking fund, how much provision needs to be made out of revenue each year which can earn at the rate of 10% compounded annually? Given  $A(10,0.10) = 15.937425$ .
- A. ₹ 74,625
  - B. ₹ 72,514
  - C. ₹ 62,745
  - D. ₹ 67,245

10. The Nominal rate of interest is 10% per annum. The interest is compounded quarterly. The effective rate of interest per annum will be:  
A. 10 %  
B. 10.10 %  
C. 10.25 %  
D. 10.38 %
11. A committee of 3 women and 4 men is to be formed out of 8 women and 7 men. Mrs. Kajal refuses to serve in a committee in which Mr. Yash is a member. The number of such committees can be:  
A. 1530  
B. 1500  
C. 1520  
D. 1540
12. A car is available for ₹ 4,98,200 cash payment or ₹ 60,000 cash down payment followed by three equal annual instalments. If the rate of interest charged is 14% per annum compounded yearly, then total interest charged in the instalment plan is (Given  $P(3,0.14) = 2.32163$ ):  
A. ₹ 1,46,314  
B. ₹ 1,46,137  
C. ₹ 1,28,040  
D. ₹ 1,58,040
13. If  ${}^6P_{2r} = 12 \times {}^6P_r$ , then  $r$  is equal to  
A. 1  
B. 2  
C. 3  
D. 4
14. How many numbers between 74 and 25,556 are divisible by 5?  
A. 5090  
B. 5097  
C. 5095  
D. 5075





15. Given the relation  $R = \{(1, 2), (2, 3)\}$  on the set  $A = \{1, 2, 3\}$ , the minimum number of ordered pairs which when added to  $R$  make it equivalence relation is
- A. 5
  - B. 7
  - C. 6
  - D. 8
16. Evaluate the integral  $\int \frac{1}{(x-1)(x-2)} dx$
- A.  $\log\left(\frac{x-2}{x-1}\right) + C$
  - B.  $\log[(x-2)(x-1)] + C$
  - C.  $\log\left(\frac{x-1}{x-2}\right) + C$
  - D.  $\log[(x-2)(x+1)] + C$
17. For a given curve  $y = 2 - x^2$ , when 'x' increases at the rate of 3 units/s, then the slope of curve will
- A. Increase at 6 units/s
  - B. Increase at 3 units/s
  - C. Decrease at 6 units/s
  - D. Decrease at 3 units/s
18. If 9<sup>th</sup> and 19<sup>th</sup> term of an Arithmetic Progression are 35 and 75, respectively, then its 20<sup>th</sup> term is:
- A. 78
  - B. 79
  - C. 80
  - D. 81

19. If  $y = \frac{x}{x+5}$ , then  $\frac{dx}{dy}$  is equal to:
- A.  $\frac{5}{(1-y)^2}$
- B.  $\frac{5}{(1+y)^2}$
- C.  $\frac{3}{(1-y)^2}$
- D.  $\frac{3}{(1+y)^2}$
20. The number in place of question mark in: 7, 26, 63, 124, 215, ?, 511 is
- A. 342
- B. 343
- C. 441
- D. 421
21. In a certain code, MENTION is written as LNEITNO. How is PRESENT written in that code?
- A. QFSFTUM
- B. ONESERP
- C. QRESTNO
- D. OERESTN
22. Out of following 41, 43, 47, 53, 61, 71, 83, 95 the odd man out shall be
- A. 95
- B. 83
- C. 71
- D. 53



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23. Deepika starts walking straight towards east. After walking 65 m, she turns to the left and walks 25 m straight. Again she turns to the left and walks a distance of 40 m. At what distance and in which direction currently she is from the initial point?
- A. 35.35 m in North-East
  - B. 35.35 m in South-West
  - C. 25 m in North
  - D. 25 m in West
24. Seven friends A, B, C, D, E, F, & G are watching movie sitting in a row. E is sitting at one extreme end. C is sitting second to E. B is sitting between A & C. G is not sitting at any extreme end. A is not at any extreme end. D is sitting immediate to F. who is sitting in the middle?
- A. G
  - B. D
  - C. C
  - D. B
25. Mr. Kartik puts his time piece on the table in such a way that at 6 : 00 PM, hours hand points to north. In which direction the minute hand will point at 9 : 15 PM?
- A. South-East
  - B. East
  - C. West
  - D. South-west
26. Shrikant is facing East and turns  $120^\circ$  in the clockwise direction and then turns  $180^\circ$  in the anticlockwise direction. Which direction is Shrikant facing now?
- A. East
  - B. North-East
  - C. North
  - D. South-West
29. 2
29. 1
30. If, rel  
A.  
B.  
C.  
D. C



27. P, Q, R, S, T and U are 6 members of a family in which there are two married couples. T, a teacher is married to a doctor, who is mother of R and U. Q, the lawyer is married to P. P has one son and one grandson. Of the two married ladies one is a housewife. There is also one student and one male engineer in the family. Which of the following is true about the grand-son of the family?
- A. He is a lawyer
  - B. He is an engineer
  - C. He is a student
  - D. He is a doctor
28. Neelam, who is Deepak's daughter, says to Deepika "your mother-in-law Rekha is younger daughter of Ramlal, who is my grandfather." How Neelam is related to Deepika?
- A. sister
  - B. niece
  - C. sister-in-law
  - D. aunt
29. Pointing to a photograph, a woman says "This man's son's sister is my mother-in-law". How is the woman's husband related to the man in the photograph?
- A. Son
  - B. Son-in-law
  - C. Grandson
  - D. Nephew
30. If A is the brother of B, B is the daughter of C and D is the father of A, then how is C related to D?
- A. Husband
  - B. Wife
  - C. Granddaughter
  - D. Grandfather



31. If  $x$  and  $y$  are related as  $4x + 3y + 11 = 0$  and mean deviation of  $y$  is 7.20, what is the mean deviation of  $x$ ?
- A. 2.70  
B. 7.20  
C. 4.50  
D. 5.40

32. The share holding pattern of ABC Ltd. is as follows:

Share holders	Promoter	FII	DII	Govt	Public
No. of shares in Millions	120	25	20	20	15

What is the difference between central angles (in degree) for shares held by Promoters and Public, in pie chart?

- A. 216  
B. 189  
C. 180  
D. 99
33. A Professor has given assignment to students in a Statistics class. A student Jagan computes the arithmetic mean and standard deviation for a set of 100 observations as 50 and 5 respectively. Later on, Sonali points out to Jagan that he has made a mistake in taking one observation as 100 instead of 50. What would be the correct mean if the wrong observation is corrected?
- A. 50.5  
B. 49.9  
C. 49.5  
D. 50.1

34. Find the mean of the following data

Class interval	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	9	13	6	4	6	2	3

- A. 23.7  
B. 35.7  
C. 39.7  
D. 43.7



35. The Median of the following set of observations: 24, 18, 36, 42, 30, 28, 21, 29, 25, 33 is
- A. 26.5
  - B. 27.5
  - C. 28.5
  - D. 29.5

36. The mean deviation about the mean for the data 12, 16, 24, 30, 35, 39, 40 is
- A. 9.14
  - B. 9.41
  - C. 8.91
  - D. 9.81

37. What does an Ogive curve represent?
- A. The cumulative frequency and class boundary
  - B. The frequency and class boundary
  - C. The frequency and cumulative frequency
  - D. The Frequency and Class Interval

38. Find the mode of the following data:

X	25-30	30-35	35-40	40-45	45-50	50-55
f(x)	20	53	42	42	41	43

- A. 31.75
  - B. 30.75
  - C. 33.75
  - D. 35.75
39. If the Standard Deviation of data 2, 4, 5, 6, 8, 17 is 4.47, then Standard Deviation of the data 4, 8, 10, 12, 16, 34 is
- A. 4.47
  - B. 8.94
  - C. 13.41
  - D. 2.24

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40. Between 9 AM and 10 AM, the average number of phone calls per minute coming into the switchboard of a company is 4. Find the probability that during one particular minute, there will be either 2 phone calls or no phone calls (given  $e^{-4} = 0.018316$ ).
- A. 0.156
  - B. 0.165
  - C. 0.149
  - D. 0.194

41. Company 'A' produces 10% defective products, company 'B' produces 20% defective products and company 'C' produces 5% defective products. If choosing a company is an equally likely event, what is probability that product chosen is free from defect?
- A. 0.88
  - B. 0.80
  - C. 0.79
  - D. 0.78

42. The probability distribution of  $x$  is given below :

Value of $x$ :	1	0	Total
Probability :	$p$	$1-p$	1

Mean is equal to

- A.  $p$
  - B.  $1-p$
  - C. 0
  - D. 1
43. For any two events 'A' and 'B' it is known that  $P(A) = 2/3$ ,  $P(B) = 3/8$  and  $P(A \cap B) = 1/4$ , then the events A and B are:
- A. Mutually exclusive and Independent
  - B. Mutually not exclusive and Independent
  - C. Mutually exclusive but not independent
  - D. Neither independent nor mutually exclusive

45.

46. i  
v.

A.

B.  $\frac{1}{2}$

C.  $\frac{1}{6}$

D.  $\frac{1}{3}$

47. The regressi

A. 1

B. -1

C.  $1/2$

D. 0

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44. If a Poisson distribution is such that  $P(X=2) = \frac{1}{3}P(X=3)$ , then the standard deviation of the distribution is :

A.  $\sqrt{3}$   
B. 3  
C. 2  
D. 1

45. For variables  $X$  and  $Y$ , we collect the four observations with  $\sum X = 10$ ;  $\sum Y = 14$ ;  $\sum X^2 = 65$ ;  $\sum Y^2 = 5$  and  $\sum XY = 3$ . What is the regression line of  $Y$  on  $X$ ?

A.  $Y = -0.8X - 5.5$   
B.  $Y = 0.8X - 5.5$   
C.  $Y = -0.8X + 5.5$   
D.  $Y = 0.8X + 5.5$

46. If a random variable  $X$  has the following probability distribution, then the expected value of  $X$  is:

$X$	-1	-2	0	1	2
$f(x)$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{3}$

A.  $\frac{3}{2}$   
B.  $\frac{1}{2}$   
C.  $\frac{1}{6}$   
D.  $\frac{1}{3}$

47. The regression lines will be perpendicular to each other when the value of  $r$  is

A. 1  
B. -1  
C.  $1/2$   
D. 0





48. Which of the following index is computed by taking the average of base year and current year?
- A. Marshall-Edgeworth index
  - B. Paasche's Index
  - C. Laspeyre's Index
  - D. Fisher's Index

49. Consider the data

Year	Base year		Current year	
	Price	Quantity	Price	Quantity
A	10	5	20	2
B	15	4	25	8
C	40	2	60	6
D	25	3	40	4

Laspeyre's index is

- A. 166.04
  - B. 166.40
  - C. 164.04
  - D. 164.40
50. The index number of prices for a country at a given date is 250. In comparison to the base period price, the price of all commodities in the country has increased by \_\_\_\_\_ times.
- A. 1.25
  - B. 1.5
  - C. 2
  - D. 2.5
51. If Fisher's index number is 160 and Paasche's index number is 140, then Laspeyre's index number is
- A. 147.77
  - B. 182.85
  - C. 183.35
  - D. 146.25

52. The age of a man is four times the sum of the ages of his two sons and after 10 years, his age will be double the sum of their ages. The present age of the man must be
- A. 56 Years
  - B. 45 Years
  - C. 60 Years
  - D. 64 Years
53. In a garment factory, an average experienced tailor can stitch 5 shirts while a fresh tailor can stitch 3 shirts daily, but the employer has to maintain an output of at least 30 shirts stitched per day. This can be formulated as
- A.  $5x + 3y \leq 30$
  - B.  $5x + 3y > 30$
  - C.  $5x + 3y \geq 30, x \geq 0, y \geq 0$
  - D.  $5x + 3y \leq 30, x \geq 0, y \geq 0$
54. Given that  $\log_{10} x = m + n - 1$  and  $\log_{10} y = m - n$ , the value of  $\log_{10}(100x/y^2)$  is expressed in terms of  $m$  and  $n$  as
- A.  $1 - m + 3n$
  - B.  $m - 1 + 3n$
  - C.  $m + 3n + 1$
  - D.  $m^2 - n^2$
55. A fertilizer company produces two types of fertilizers called grade I and grade II. Each of these types is processed through a critical chemical plant unit. The plant has maximum of 180 hours available in a week. Manufacturing one bag of grade I fertilizer requires 4 hours in the plant. Manufacturing one bag of grade II fertilizer requires 10 hours in the plant. Express this using linear inequalities.
- A.  $2x_1 + 5x_2 \leq 180$
  - B.  $4x_1 + 10x_2 > 180$
  - C.  $2x_1 + 5x_2 > 180$
  - D.  $4x_1 + 10x_2 \leq 180$
56. If  $x = y^a, y = z^b, z = x^c$ , then the value of  $abc$  is
- A. 1
  - B. 2
  - C. 3
  - D. 4



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57. The difference between compound interest and simple interest on a certain sum of money invested for 3 years at 6% per annum is ₹ 110.16. The principle is
- A. ₹ 3,000
  - B. ₹ 3,700
  - C. ₹ 12,000
  - D. ₹ 10,000
58. A machine depreciates at 10% of its value at the beginning of a year. The cost and scrap value realized at the time of sale being ₹ 23,240 and ₹ 9,000 respectively. Approximately, for how many years the machine is put to use?
- A. 7
  - B. 8
  - C. 9
  - D. 10
59. The population of a town increases every year by 2% of the population at the beginning of that year. The approximate number of years, by which the total increase of population will be 40%, is \_\_\_\_\_. (Given  $1.02^8 = 1.17166$ )
- A. 15
  - B. 17
  - C. 19
  - D. 20
60. Govinda's mother decides to gift him ₹ 50,000 every year starting from today for the next five years. Govinda deposits this amount in a bank as and when he receives and gets 10% per annum interest rate, compounded annually. What is the present value of this annuity? Given  $P(4,0.10) = 3.16987$ .
- A. ₹ 2,80,493.5
  - B. ₹ 2,08,493.5
  - C. ₹ 2,08,943.5
  - D. ₹ 2,58,493.5
- 62.
- 63.
64. Jonny  
interes  
he inve.
- A. ₹ 1,
  - B. ₹ 1,
  - C. ₹ 1,
  - D. ₹ 1,8



61. The compound interest on ₹ 15,625 for 9 months at 16% per annum compounded quarterly is:
- A. ₹ 1,851
  - B. ₹ 1,941
  - C. ₹ 1,951
  - D. ₹ 1,961
62. If the discount rate is 10% per annum, how much amount would you pay to receive ₹ 2,500 growing at 8%, annually forever?
- A. ₹ 1,25,000
  - B. ₹ 2,50,000
  - C. ₹ 1,50,000
  - D. ₹ 2,00,000
63. Mr. Sharad got his retirement benefits amounting to ₹ 50,00,000. He want to receive a fixed monthly sum of amount for his rest of life, starting after one month and thereafter he want to pass on the same to future generation. He expects to earn an interest of 9% compounded annually. Determine how much perpetuity amount he will receive every month?
- A. ₹ 39,500
  - B. ₹ 38,500
  - C. ₹ 37,500
  - D. ₹ 36,600
64. Jonny wants to have ₹ 2,00,000 in his saving account after three year .The rate of interest offered by bank is 8% per annum compounded annually. How much should he invest today to achieve his target amount?
- A. ₹ 1,47,489.10
  - B. ₹ 1,58,766.44
  - C. ₹ 1,71,035.59
  - D. ₹ 1,84,417.96

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65. A survey shows that 74% of the Canadian like grapes, whereas 68% like bananas. What percentage of the Canadians like both grapes and bananas, if everybody likes either of two?
- A. 32%  
B. 26%  
C. 6%  
D. 42%
66. In how many different ways can the letters of the word 'SOFTWARE' be arranged so that the vowels always come together?
- A. 720  
B. 1440  
C. 2880  
D. 4320
67. If  $xy = 1$ , then  $y^2 + dy/dx$  is equal to
- A. 1  
B. 0  
C. -1  
D. 1/2
68. In the next world cup of cricket, there will be 12 teams divided equally into two equal groups. Team of each group will play a match against other teams of the group. From each group, 3 top teams will qualify for next round. In this round, each team will play against each other. Four top teams of this round will qualify for semi-finals and play against each other and then two top teams will go to final, where they play the best of three matches. How much minimum number of matches in the next world cup will be?
- A. 54  
B. 53  
C. 38  
D. 43
- 70.
- 71.
72. If  $f$
- A.  
B.  
C.  $\frac{x}{4}$   
D.  $\frac{3x}{4}$

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69. If 4<sup>th</sup>, 7<sup>th</sup> and 10<sup>th</sup> terms of a Geometric Progression are  $p, q$  and  $r$ , respectively, then:
- A.  $p^2 = q^2 + r^2$
  - B.  $p^2 = qr$
  - C.  $q^2 = pr$
  - D.  $pqr + pq + 1 = 0$
70. If  $R$  be a relation defined on the set of Natural numbers as " $x R y \Leftrightarrow (x - y)$  is divisible by 5"  $\forall x, y \in N$ , then the relation  $R$  is:
- A. Equivalence
  - B. Anti-symmetric
  - C. Symmetric but not transitive
  - D. Symmetric but not reflexive
71. If  $A = \{a, b, c\}$ ,  $B = \{b, c, d\}$  and  $C = \{a, d, c\}$ , then  $(A - B) \times (B \cap C)$  is equal to:
- A.  $\{(a, d), (c, d)\}$
  - B.  $\{(a, c), (a, d)\}$
  - C.  $\{(c, a), (d, a)\}$
  - D.  $\{(a, c), (a, d), (b, d)\}$
72. If  $f(x): N \rightarrow R$  is a function defined as  $f(x) = 4x + 3, \forall x \in N$ , then  $f^{-1}(x)$  is:
- A.  $4 + \frac{x+3}{4}$
  - B.  $\frac{x+3}{4}$
  - C.  $\frac{x-3}{4}$
  - D.  $\frac{3x+4}{4}$

□



73. Five boys Ajay, Brijmohan, Chandru, Dheeraj and Ehsan are sitting in a park in a circle facing the centre. Ajay is facing South-West, Dheeraj is facing South-East, Brijmohan and Ehsan are right opposite Ajay and Dheeraj, respectively and Chandru is equidistant between Dheeraj and Brijmohan. Which direction is Chandru facing?
- A. West
  - B. South
  - C. North
  - D. East
74. Find the next number in the series: Q1F, S2E, U6D, W21C,.....?
- A. Y66B
  - B. Y44B
  - C. Y88B
  - D. Z66B
75. Pran, Qomal, Ravi, Shalu, Trilok, Urvi, Vasu and Walter are sitting in a row facing North.
- (i) Pran is fourth to the right of Trilok
  - (ii) Walter is fourth to the left of Shalu
  - (iii) Ravi and Urvi, which are not at the ends, are neighbours of Qomal and Trilok, respectively.
  - (iv) Walter is immediate left of Pran and Pran is the neighbour of Qomal.
- Identify who are sitting at the extreme ends?
- A. Pran and Walter
  - B. Trilok and Urvi
  - C. Trilok and Shalu
  - D. Shalu and Pran
76. Find the odd man out in the following series: 190, 145, 136, 352, 460, 324, 631, 244.
- A. 136
  - B. 244
  - C. 460
  - D. 324

77. Sunita walks a distance of 2 km towards East, turns left and moves 1 km, then turns left and moves 2 km and then turns left again and moves 1 km, then halts. At what distance Sunita is now from the starting point?
- A. 0 km
  - B. 1 km
  - C. 2 km
  - D. 6 km
78. X is the husband of Y. W is daughter of X. Z is husband of W. N is daughter of Z. What is the relationship of Y to N?
- A. Cousin
  - B. Niece
  - C. Daughter
  - D. Grand-mother
79. Six friends – A, B, C, D, E, and F are sitting around a circular table facing towards the centre of the circle. E is not sitting between B and D. A sits to the left of F and C is fourth to the right of A. D is immediate right of E. Who sits second to right to F?
- A. C
  - B. A
  - C. D
  - D. B
80. Based on the statements given below, find out who is the uncle of P?
- (i) K and J are brothers
  - (ii) K's sister is M
  - (iii) P and N are siblings
  - (iv) N is the daughter of J
- A. K
  - B. J
  - C. N
  - D. M



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81. There are six persons A, B, C, D, E and F in a family. A and B are a married couple and A is a male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F whose husband has died. Who is the mother of C?
- A. A
  - B. E
  - C. D
  - D. F

82. The following is the data related to the daily income of 86 persons :

Income in ₹ :	500-999	1000-1499	1500-1999	2000-2499
No. of persons :	15	28	36	7

- What is the percentage of persons earning at least ₹ 1,500 per day?
- A. 50%
  - B. 45%
  - C. 40%
  - D. 60%

83. For tabulation, 'caption' is
- A. The upper part of the table
  - B. The lower part of the table
  - C. The main part of the table
  - D. The upper part of a table that describes the rows and sub-rows

84. For a moderately skewed distribution of marks in statistics for a group of 200 students, the mean marks and median marks were found to be 55.60 and 52.40, respectively. What are the modal marks?
- A. 54.43
  - B. 48
  - C. 53.56
  - D. 46

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A.  
B.  
C.  
D.
89. For a  
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deviatic  
A. 30  
B. 32  
C. 25  
D. 39



85. For a given data set: 5, 10, 3, 6, 4, 8, 9, 3, 15, 2, 9, 4, 19, 11, 4; what is the median?  
A. 8  
B. 6  
C. 4  
D. 9
86. The mean and variance of a group of 100 observations are 8 and 9, respectively. Out of 100 observations, the mean and standard deviation of 60 observations are 10 and 2, respectively. Find the standard deviation of remaining 40 observations?  
A. 4.5  
B. 3.5  
C. 2.5  
D. 1.5
87. The Modes of presentation of data are :  
A. Textual, Diagrammatic and Internal presentation  
B. Tabular, Textual and Internal Presentation  
C. Textual, Tabular and Diagrammatic presentation  
D. Tabular, Diagrammatic and Internal Presentation
88. If the mean of two numbers is 30 and geometric mean is 24, then what will be the Harmonic mean of two numbers?  
A. 19.2  
B. 21.8  
C. 22.3  
D. 18.4
89. For a given set of normally distributed data, the following statistical parameters are known: Mean = 6; Standard deviation = 2.6; Median = 5 and Quartile deviation = 1.5, then the coefficient of quartile deviation equals to  
A. 30  
B. 32  
C. 25  
D. 39



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90. The Geometric Mean of 3, 7, 11, 15, 24, 28, 30, 0 is
- A. 6
  - B. 0
  - C. 9
  - D. 12
91. The probability that a four digit number comprising the digits 2, 5, 6 and 7, without repetition of digits, would be divisible by 4 is
- A.  $\frac{1}{2}$
  - B.  $\frac{3}{4}$
  - C.  $\frac{1}{4}$
  - D.  $\frac{1}{3}$
92. If the first quartile is 42.75 and the third quartile is 74.25, then the coefficient of quartile deviation is:
- A. 29.62
  - B. 15.75
  - C. 17.57
  - D. 26.92
93. On a commodity exchange when booking trades with provision for stop-losses, a trader can make a profit of ₹ 50,000 or incur a loss of ₹ 20,000. The probabilities of making profit and incurring loss, from the past experience, are known to be 0.75 and 0.25 respectively. The expected profit to be made by trader should be
- A. ₹ 32,500
  - B. ₹ 35,000
  - C. ₹ 30,000
  - D. ₹ 40,000
- 95.
96. If  $1$
- A.
  - B.  $\frac{1}{4}$
  - C.  $\frac{3}{8}$
  - D.  $\frac{1}{2}$

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94. The incidence of skin diseases in a chemical plant occurs in such a way that the workers have 20% chance of suffering from it. What is the probability that out of 6 workers 4 or more will have skin diseases?
- A. 0.1696  
B. 0.01696  
C. 0.1643  
D. 0.01643
95. Four persons are chosen at random from a group of 3 men, 2 women and 4 children. The probability that exactly 2 of them are children, is
- A.  $\frac{10}{21}$   
B.  $\frac{1}{12}$   
C.  $\frac{1}{5}$   
D.  $\frac{1}{9}$
96. If  $P(A) = \frac{1}{3}$ ,  $P(B) = \frac{1}{4}$ ,  $P(A/B) = \frac{1}{6}$ , the probability  $P(B/A)$  is
- A.  $\frac{1}{8}$   
B.  $\frac{1}{4}$   
C.  $\frac{3}{8}$   
D.  $\frac{1}{2}$





97. Given that  $r = 0.4$  and  $n = 81$ , determine the limits for the population correlation coefficient.

- A. (0.333, 0.466)
- B. (0.367, 0.433)
- C. (0.337, 0.463)
- D. (0.373, 0.427)

98. Weighted geometric mean of relative formula satisfies \_\_\_\_\_ test while Factor Reversal test is satisfied by \_\_\_\_\_.

- A. Time Reversal, Fisher's Ideal Index
- B. Time Reversal, Laspeyre's Index
- C. Factor Reversal, Paasche's Index
- D. Factor Reversal, Fisher's Ideal Index

99. Spearman's rank correlation coefficient  $r_R$  is given by

- A.  $1 - \frac{6\sum d_i^2}{n(n^2 + 1)}$
- B.  $1 + \frac{6\sum d_i^2}{n(n^2 - 1)}$
- C.  $1 + \frac{6\sum d_i^2}{n(n^2 + 1)}$
- D.  $1 - \frac{6\sum d_i^2}{n(n^2 - 1)}$

100. If the regression equations are  $x + 2y - 5 = 0$  and  $2x + 3y - 8 = 0$ , then the mean of  $x$  and the mean of  $y$  are \_\_\_\_\_, respectively:

- A. -3 and 4
- B. 2 and 4
- C. 1 and 2
- D. 2 and 1