

- When mean is 3.57 and mode is 2.13 then the value of median is
 - 3.09
 - 5.01
 - 4.01
 - 3.05
- Frequency curve is a limiting form of
 - Frequency polygon
 - Histogram
 - Both (a) and (b)
 - None of these
- Tally marks determined
 - Class width
 - Class boundary
 - Class limit
 - Class frequency
- The quickest method of collect primary data is
 - Personal interview
 - Indirect interview
 - Mailed questionnaire method
 - Telephonic interview
- Annual income of a person is
 - An attribute
 - Discrete variable
 - A continuous variable
 - Both (b) and (c)
- Which of the following is not a two-dimensional figure ?
 - Line diagram
 - Pie diagram
 - Square diagram
 - Rectangle diagram
- Mode of the observation 2,5,8,4,3,4,4,5,2,4 and 4 is
 - 3
 - 2
 - 5
 - 4
- Three cards are drawn with replacement from a well shuffled deck of 52 cards. What is the probability that the first card is an ace, second is a king and third is a queen ?
 - $\frac{1}{2179}$
 - $\frac{1}{2197}$

- $\frac{1}{52}$
- $\frac{1}{2971}$

- A bag contains 5 red balls, 4 blue balls and M green balls. If the random probability of picking two green balls is $\frac{1}{7}$ what is the number of green balls (m) ?
 - 5
 - 7
 - 6
 - 8

- A random variable X has the following probability distribution

X	0	1	2	3
P(X)	0	2K	3k	K

Then , P (x < 3) would be

- $\frac{1}{6}$
 - $\frac{1}{3}$
 - $\frac{2}{3}$
 - $\frac{5}{6}$
- If P (A) = p and P (B) = q then
 - $P (A/B) \leq \frac{q}{p}$
 - $P (A/B) \geq \frac{p}{q}$
 - $P (A/B) \leq \frac{p}{q}$
 - $P (A/B) \geq \frac{q}{p}$
 - Three identical dice are rolled. The probability that the same number will appear on each them.
 - $\frac{1}{6}$
 - $\frac{1}{12}$
 - $\frac{1}{36}$
 - $\frac{1}{24}$
 - Number of mis prints per page of a hick book follows
 - Normal distribution
 - Poisson distribution
 - Binomial distribution
 - Standard normal distribution
 - The most important continuous probability distribution is known as
 - Binomial distribution
 - Normal distribution

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- c) Chi- square distribution
d) Sampling distribution
15. If the quartile deviation of a normal curve is 4.05, then its mean deviation is
a) 5.26
b) 6.24
c) 4.24
d) 4.80
16. What is the standard deviation of the number of recoveries among 48 patients, when the probability of recovering is 0.75?
a) 36
b) 81
c) 9
d) 6
17. The average of five quantities is 6 and the average of three is 8. What is average of the remaining two?
a) 4
b) 5
c) 3
d) 2
18. The most commonly used measure of central tendency is
a) AM
b) Median
c) Mode
d) GM
19. A sum doubles in 20 yr at simple interest. How much is the rate?
a) 5% per annum
b) 4% per annum
c) 8% per annum
d) 10% per annum
20. A certain sum of money becomes Rs. 1250 in a span of 5 yr at simple interest and further to Rs 1700 in the span of 8 yr. At the same rate, what it amount to at end of 12 yr?
a) Rs. 2250
b) Rs. 2050
c) Rs. 2300
d) Rs. 2450
21. In what time will the simple interest be $\frac{2}{5}$ of the principal at 8% per annum ?
a) 8 yr
b) 7 yr
c) 5 yr
d) 6 yr
22. What sum of money will amount to Rs. 520 in 5 yr and to Rs. 568 in 7 yr at simple interest?
a) Rs. 400
b) Rs. 120
c) Rs. 510
d) Rs. 220
23. The simple interest earned on a certain sum of money for 10 yr at the rate of 5% per annum was half the sum. How much is the sum ?
a) Rs. 1000
b) Rs. 2000
c) Rs. 3000
d) Data inadequate
24. What annual payment will discharge a debt of Rs. 1025 due in 2 yr at the rate of 5% compounds interest ?
a) Rs. 551.25
b) Rs. 550.00
c) Rs. 560.00
d) Rs. 560.75
25. What is the difference between the CI and SI on a sum of Rs 1600 at 5% rate annum for period of 2 yr?
a) Rs. 8
b) Rs. 4
c) Rs. 16
d) Cannot be determined
26. What is the compound interest on Rs. 6000 at 10% per annum for one year compounded half-yearly?
a) Rs.1260
b) Rs. 630
c) Rs. 615
d) Rs. 600
27. The quartiles of a variable are 45,52 and 65, respectively. Its quartile deviation is
a) 10
b) 20
c) 25
d) 11

28. What is the standard deviation of 5,5,9,9,9,10,5,10 and 10?
- $\sqrt{14}$
 - $\frac{1}{3}\sqrt{42}$
 - 4.50
 - 6.50
29. Which of the following is not a two dimensional figure ?
- Line diagram
 - Pie diagram
 - Square diagram
 - Rectangle diagram
30. In inclusive classification of data
- Both the class limits are included in that class
 - Usually it is used for discrete data
 - Both (a) and (b)
 - None of the above
31. The test of shifting the base is called
- Unit test
 - Time reversal test
 - Circular test
 - None of the these
32. P_{01} is the index for time
- 1 or 0
 - 0 or 1
 - 1 or 1
 - 0 or 0
33. Which of the following statements is true?
- Usually mean is the best measure of central tendency
 - Usually median is the best measure of central tendency
 - Usually mode is the best measure of central tendency
 - Normally, GM is the best measure of Central tendency
34. Laspeyre's and pasche's method satisfy time reversal test.
- True
 - False
 - Both (a) and (b)
 - None of these
35. Bivariate data are the data collected for
- Two variables
 - More than two variables
 - Two variables at the same point of time
 - Two variables at different points of time
36. As the sample size increases, standard error
- Increases
 - Decreases
 - Remains constant
 - Decreases proportionately
37. Ogive is a _____
- Line diagram
 - Bar diagram
 - Both (a) and (b)
 - None of these
38. The value of deciles divides the total number of observations into ____ equal parts.
- 100
 - 10
 - 2
 - None of these
39. _____ is an absolute measure of dispersion.
- Range
 - Mean deviation
 - Standard deviation
 - All of these
40. A graphical representation of _____ can be prepared in two different ways.
- Median
 - Mode
 - Mean
 - None of these
41. Find the amount of annuity of payment of Rs. 7000 is made annually for 7 yr at interest rate of 6% compounded annually.
- 49000
 - 49300
 - 58753.33
 - 50500
42. A card is drawn from each of two well shuffled packs of cards. The probability that atleast one of them is an ace is
- 1/169
 - 25/169
 - 2/13

- d) None of these
43. The mean of binomial distribution is 4 and standard deviation $\sqrt{3}$. What is the value of n ?
- a) 14
b) 16
c) 18
d) 20
44. If the first quartile is 104 and quartile deviation is 18, the third quartile will be
- a) 140
b) 116
c) 20
d) 0
45. If an unbiased coin is tossed once, then two events head and tail are
- a) Mutually exclusive
b) Exhaustive
c) Equally likely
d) All of these
46. In audit test statistical methods are not used
- a) True
b) False
c) Both (a) and (b)
d) None of these
47. Which of the following measures of central tendency is based on only 50% of the central values?
- a) Mean
b) Median
c) Mode
d) Both (a) and (b)
48. Mode of 0, 3, 5, 6, 7, 9, 12, 0 and 2 is
- a) 6
b) 0
c) 3
d) 5
49. _____ may be defined as the minimum value and the maximum value, the class interval may contain.
- a) Class mark
b) Class limit
c) Both (a) and (b)
d) None of these
50. Quartiles are values dividing a given set of observations into _____ equal parts.
- a) Two
b) Four
c) Six
d) Ten
51. If in Binomial distribution mean is 10 and standard deviation is 2, q will be
- a) 0
b) 0.2
c) 0.8
d) 0.4
52. A person lend _____ at simple interest in order of getting Rs. 645 at the end of $1\frac{1}{2}$ per annum at the rate 5%.
- a) Rs. 600
b) Rs. 625
c) Rs. 550
d) Rs. 575
53. The _____ size of the sample more reliable is the result.
- a) Median
b) Smaller
c) Larger
d) None of these
54. What will be the final value of investment for the principal value of Rs. 80000 for 4 yr at the rate 10% per annum rate of interest?
- a) Rs. 83200
b) Rs. 112000
c) Rs. 82300
d) None of these
55. A pair of dice is thrown. What is the probability that the sum of the numbers obtained is more than 10?
- a) $1/18$
b) $1/9$
c) $1/12$
d) None of these
56. The mean of binomial distribution is 4 and standard deviation is $\sqrt{3}$. What is the value of P ?
- a) $1/3$
b) $1/4$
c) $1/5$

d) $\frac{3}{4}$

57. A bag contains 30 balls numbered from 1 to 30. One ball is drawn at random. The probability that the number of the drawn ball will be multiple of 3 or 7 is

a) $\frac{7}{15}$

b) $\frac{13}{30}$

c) $\frac{1}{2}$

d) None of these

58. If the relationship between x and y is given by $4x - 5y = 10$ and the range of x is 15, what would be the range of y?

a) 10

b) 11

c) 12

d) 13

59. When successive prices or quantities are taken, the relatives are called?

a) Link relative

b) Price relative

c) Both (a) and (b)

d) None of these

60. Price index numbers are used to

a) Measure and compare prices

b) Measure prices

c) Compare prices

d) None of these