

Panchakshari's Professional Academy
CS Foundation: Statistic Practice Sheet

1. Quartile deviation can be affected by
 - a) Poisson distribution
 - b) Binomial distribution
 - c) Sampling fluctuations
 - d) None of these
2. The present value of an annuity of 3000 for 15 yr at 4.5% per annum, then CI is
 - a) Rs. 23809.41
 - b) Rs. 32000
 - c) Rs. 32908.41
 - d) None of these
3. The compound interest on Rs. 1000 for 10 yr at 4% per annum the interest being paid quarterly is ____
 - a) 786
 - b) 586
 - c) 490
 - d) 186
4. In ____ first payment/ receipt takes place at the end of first period.
 - a) Annuity due
 - b) Annuity regular
 - c) Annuity special
 - d) None of these
5. What rate per cent will a sum double it self in 7 yr, if the interest is compounded annually?
 - a) 7.0%
 - b) 8.0%
 - c) 10%
 - d) 7.9%
6. If compounding is done quarterly, what will be the amount Mr. Ravi will receive for Rs. 4000 at the rate of 10% rate of interest for 4Yr?
 - a) Rs. 5893.02
 - b) Rs. 5938.02
 - c) Rs. 5000
 - d) None of these
7. The most important probability distribution is known as
 - a) Binomial distribution
 - b) Normal distribution
 - c) Chi-square distribution
 - d) Sampling distribution
8. If an unbiased coin is tossed once, then the two events head and tail are
 - a) Mutually exclusive
 - b) Exhaustive
 - c) Equally likely
 - d) All of these
9. Compound interest for a certain sum at the rate 5% per annum for first year is Rs. 25. Then, SI for the same money at the rate 5% per annum for 2 yr will be
 - a) Rs. 40
 - b) Rs. 50
 - c) Rs. 60
 - d) Rs. 70
10. The average salary of 50 mens was Rs. 80 but it was found that salary of 2 of them were Rs. 46 and Rs. 28 which was wrongly taken as Rs. 64 and Rs. 82. The revised average salary is
 - a) Rs. 80
 - b) Rs. 78.56
 - c) Rs. 85.26
 - d) Rs. 85
11. What is the coefficient of range for the following wages of 8 workers (in Rs) ? 80, 65,90,60,75,70,72,85
 - a) Rs. 30
 - b) Rs. 20
 - c) 35
 - d) 25
12. The total of the deviation of a set of observation from their AM is always.
 - a) 0
 - b) 1
 - c) -1
 - d) -2
13. Median of 2,5,8,4,9,6 and 71 is
 - a)
 - b) 9
 - c) 8
 - d) 5
 - e) 6
14. Shape of normal curve is ____
 - a) J-shaped
 - b) U-shaped
 - c) Bell-Shaped

- d) None of these
15. A number is selected at random from number 200 to 500. The probability that is divisible by 7 is
- $\frac{41}{300}$
 - $\frac{400}{300}$
 - $\frac{42}{300}$
 - None of these
16. Price relative is expressed in term of
- $P = \frac{p_n}{p_0}$
 - $P = \frac{p_0}{p_n}$
 - $P = \frac{p_n}{p_0} \times 100$
 - $P = \frac{p_0}{p_n} \times 100$
17. Consumer price index number for the year 1957 was 313 with 1940 as the base year, the average monthly wages in 1957 of the workers in a factory be Rs. 160. Their real wages is
- 48.40
 - 51.12
 - 40.30
 - None of these
18. Purchasing power of money is
- Reciprocal of price index number
 - Unequal to price index number
 - Equal to price index number
 - None of these
19. If $\sum p_0 Q_0 = 3500$, $\sum p_1 Q_0 = 3850$. Then the cost of living index for 1950 with respect to base 1960 is
- 110
 - 90
 - 100
 - None of these
20. Wholesale Price index (WPI) is given by
- Marshall-Edgeworth index
 - Laspeyre's index
 - Paasche's index
 - None of these
21. Time reversal test is represented symbolically by
- $p_{01} \times p_{10}$
 - $p_{01} \times p_{10} = 1$
 - $p_{01} \times p_{10} \neq 1$
 - None of these
22. Laspeyre's or Paasche's or the Fisher's index do not satisfy
- Time reversal test
 - Unit test
 - Circular test
 - None of these
23. A what rate of interest would an amount become 3 times in 10 yr.?
- 11.6%
 - 11%
 - 12%
 - None of these
24. If the prices of all commodities in a place have decreased 35% over the base period prices, then the index number of prices of that place is now
- 35
 - 135
 - 85
 - None of these
25. At a certain rate of interest, the amount becomes double in 6 yr. Then, at same rate in how many years would it be four times?
- 10 yr
 - 12 yr
 - 11 yr
 - None of these
26. Cost of living index number (CLI) is expressed in terms of
- $\frac{\sum p_n Q_0}{\sum p_0 Q_0} \times 100$
 - $\frac{\sum p_n Q_n}{\sum p_0 Q_0}$
 - $\frac{\sum p_0 Q_n}{\sum p_n Q_n} \times 100$
 - None of these
27. is extremely sensitive to the size of the sample
- Range
 - Mean
 - Median
 - Mode
28. The wages of 8 workers expressed in rupees are 42,45,49,38,56,54,55 and 47 find median wage.

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- a) 47
b) 48
c) 49
d) 50
29. A bag contains Rs. 187 in the form of Rs. 1,50 Paise and 10 Paise coins in the ratio of 3:4:5 find the number of each type of coins.
a) 30,40,50
b) 102,136,170
c) 60,80,100
d) None of these
30. If the median of 5,9,11,3,4, X and 8 is 6, then the value of X is equal to
a) 6
b) 5
c) 4
d) 3
31. An ordinary dice is thrown. What is the probability that the number appearing on the dice is greater than 3?
a) $\frac{1}{2}$
b) $\frac{1}{3}$
c) $\frac{1}{4}$
d) None of these
32. From a well shuffled pack of cards is drawn at random. Find the probability that it is an ace.
a) $\frac{1}{4}$
b) $\frac{1}{13}$
c) $\frac{4}{17}$
d) $\frac{2}{13}$
33. A's family income is Rs. 1440. If a pie chart is drawn to show how he spends under various heads such food, clothing education etc; then the amount spent on education, if it is represented by a sector of central angle 45° , is
a) Rs.32
b) Rs.64.80
c) Rs. 180
d) Insufficient data
34. Five coins whose face are marked 2,3 are thrown. What is the probability of obtaining a total of 12?
a) $\frac{1}{16}$
b) $\frac{3}{16}$
c) $\frac{5}{16}$
d) $\frac{7}{16}$
35. For two events A and B if $p(A) = P\left(\frac{A}{B}\right) = \frac{1}{4}$ and $P\left(\frac{A}{B}\right) = \frac{1}{2}$, then $p\left(\frac{A}{B}\right)$ is equal to
a) $\frac{1}{4}$
b) $\frac{1}{2}$
c) $\frac{3}{4}$
d) 1