

MATHS

BOOKS - UNITED BOOK HOUSE

Kalidhan Institution, Question Paper

Exercise

1. Write the two meanings of statistics.



2. Define attribute with examples.



3. Distinguish between discrete and continuous variable.



4. Define primary data with examples.



5. Define time-series data with examples.



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6. Define Pilot survey.



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7. Define tabulation.



8. Write two uses of ogive.



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9. If ω is the imaginary cube root of unity and

$$\left(a+b\omega+c\omega^2
ight)^3+\left(a+b\omega^2+c\omega
ight)^3=27abc$$



10. Define impossible event with examples.



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11. Describe the different parts of a table.



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12. Describe the different parts of a table.



13. Distinguish between Histogram and Bar diagram.



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14. Write the uses of Geometric mean.



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15. Show that $\sum_{i=1}^n \left(x_i - A\right)^2$ is minimum when

 $A=\bar{x}.$

16. Prove that $\bar{x}_1 < \bar{x} < \bar{x}_2$ where the symbols have their usual meanings.



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17. If y = a + bx, then show that Me(y) = a + b

Me(x).



18. Show it with an experiment that different materials have different ability to conduct heat through them.



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19. Write the classical definition of probability and state its limitations.



20. For any two events A and B, show that,

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



21. How would you construct a frequency distribution of a continuous variable?



22. A variable takes values, a, ar, ar^2 ,....., ar^{n-1} with equal frequencies. Find AM, GM and HM and hence show that $(GM)^2 = A.\ M.\ imes H.\ M.$



23. State and prove Cauchy-Schwartz inequality.

