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## MATHS

## BOOKS - UNITED BOOK HOUSE

## Kalidhan Institution, Question Paper

Exercise

1. Write the two meanings of statistics.
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2. Define attribute with examples.

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# 3. Distinguish between discrete and 

 continuous variable.
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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 $\omega$ is the imaginary cube root of unity and $a+b+c=0$ then show that
$\left(a+b \omega+c \omega^{2}\right)^{3}+\left(a+b \omega^{2}+c \omega\right)^{3}=27 a b c$

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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 $y=a+b x$, then show that $M e(y)=a+b$ $\operatorname{Me}(\mathrm{x})$.
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.

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20. For any two events $A$ and $B$, show that, $P(A \cup B)=P(A)+P(B)-P(A \cap B)$.

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

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

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23. State and prove Cauchy-Schwartz inequality.
