MATHS

BOOKS - UNITED BOOK HOUSE

Jodhpur Park Boys School, Question Paper

Exercise

1. Define Pilot survey.

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2. What do you mean by MTP?

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3. Define discrete variable with an example.

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4. What do you mean by disease?

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5. Sketch a blank statistical table and name its different parts and explain any two of them.

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6. "Equal width for different classes is preferred in construction fo frequency distribution" Explain.

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7. State and prove Remainder theorem.

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8. IF α, $\beta$and γ, δ be the roots of the equation

$x^2 - bx + c = 0$ and $x^2 - cx + b = 0$

respectively, form the equation whose roots are $\left(\frac{1}{\alpha\gamma} + \frac{1}{\beta\delta}\right)$and $\left(\frac{1}{\alpha\delta} + \frac{1}{\beta\gamma}\right)$.

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9. Assuming a.m. $\geq$ g.m is true for 8 and 16 positive observation show that a.m $\geq$ g.m for 11 positive observation.

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10. Given that the cumulative frequencies of less than type and more than type corresponding to a class interval are 320 and 323 respectively, when the total frequency is 500, find the percentage of the class-interval.

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11. Find the standard deviation of the following data :

49,63,46,58,52,60,54

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12. The first three moments of a distribution about the value 2 of the variable are 1, 16 and -40 respectively. Find the first three moments about 0 and the variance of the distribution.

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13. Write notes on : Relative dispersion and its measures.

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14. Find the polynomial function f(x) for which it is known that f(0) = 1, f(1) = 2, f(2) = 11 and f(3) = 34.

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15. True/false:

Sometimes a quantitative variable can be looked upon as a qualitative variable.

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16. True/false:

If all the values lie between two numbers then their harmonic mean may or may not lie between the same numbers.

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17. True/false:

Temperature is a discrete variable.

18. True/false:

S.D. cannot exceed Mean deviation about mean.

19. True/false:

$\log_2 5 > \log_3 6$

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20. Fill in the blanks:

Mean deviation is minimum when deviations are taken about_____.

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21. Fill in the blanks:

If f(1) = 2 F(50) = -23, then f(3) = _____.

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22. Class mark of a class is

A. a) $LCL+\frac{UCL-LCL}{2}$

B. b) $UCL-\frac{d}{2}$

C. c) $UCB-\frac{UCB-LCB}{2}$

D. d) none of these

$$(WCO)d = classwidth$$

Answer:

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23. If u is proportional to v then

A. $\sum u_i^2 . \sum v_i^2 = \left(\sum u_i . v_i\right)^2$

B. $\sum u_i^2 . \sum v_i^2 > \left(\sum u_i . v_i\right)^2$

C. $\sum u_i^2 . \sum v_i^2 \neq \left(\sum u_i . v_i\right)^2$

D. none of these

Answer:

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24. find h.m of the numbers 1, 2, 5, 10, 20.

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25. y $\propto x^2$ and y=9 when x =9 . If y =4 then find the value of x .

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26. If f(2) = 9 and f(5) = 17 then `Deltaf(2) = _____(fill in the blanks)

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27. If f(x) be a polynomial of degree 1, then $\Delta^2 f(x)$ = _____(fill in the blanks)

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28. Define frequency density of a class interval.

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29. Write the empirical relation between mean, median and made for a moderately skew distribution.

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