



# MATHS

## BOOKS - UNITED BOOK HOUSE

### Jadavpur Vidyapith, Question Paper

#### Exercise

1. Wages (in Rs) obtained by workers is a

A. a) Discrete variable

B. b) Continuous variable

C. c) Attribute

D. c) none of these

**Answer:**



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2. Division obtained in an examination is

A. a) Nominal attribute

B. b) Ordinal attribute

C. c) Discrete variable

D. d) none of these

**Answer:**



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**3.** Class width of a class interval is defined as

A. a) upper class boundary-lower class

boundary of the class

B. b) upper class limit-lower class limit of  
the class

C. c) none of these

D.

**Answer:**



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**4. A line diagram is used to represent.**

A. a) Time-series

B. b) spatial-series data

C. c) frequency data

D. d) none of these

**Answer:**



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**5. Harmonic mean of 1,  $\frac{1}{2}$  and  $\frac{1}{3}$**

A.  $\frac{1}{3}$

B.  $\frac{1}{2}$

C. 1

D. none of these

**Answer:**



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6. Standard deviation of 1, 2, 3, 4, 5 is 2. Then standard deviation of (-2), (-4), (-6), (-8), (-10) is

A. a) (-)2

B. b) 2

C. c) (-)4

D. d) 4

**Answer:**



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7. if  $3y + 4x = 8$  and  $QD(y) = 12$ , then value of

$QD(x)$  is

A. 7

B. 9

C. (-)7

D. (-)9

**Answer:**



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**8.** Define primary data with an example.



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**9.** Define class boundary.





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**10.** Name the various parts of a table.



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**11.** What are represented along the horizontal axis and vertical axis in drawing an ogive?



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**12.** A variable assumes the values  $x_1, x_2, \dots, x_n$  with frequencies  $f_1, f_2, \dots, f_n$  In respectively, show that 
$$\sum_{i=1}^n f_i(x_i - \bar{x}) = 0.$$



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**13.** Mean and median of a frequency distribution are 24 and 26.5 respectively. Find the mode using empirical formula.



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**14.** In a frequency distribution having 6 class intervals the total frequency is 100 and cumulative frequency less than type and cumulative frequency more than type corresponding to the fourth class interval are 86 and 50 respectively. Find the frequency of the fourth class interval.



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**15.** If arithmetic mean and coefficient of variation of a variable  $x$  are 10 and 50%

respectively, find Var (5 - 2x).



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**16.** Discuss Questionnaire Method and Interviewer Method.



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**17.** Discuss the method of drawing a Histogram with an example.



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**18.** If  $G_1$ ,  $G_2$  and  $G$  denotes GM of the first group, GM of the second group and GM of the composite group respectively and if  $G_1 < G_2$ , show that  $G_1 < G < G_2$ .



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**19.** If SD of first  $n$  odd positive integers is  $\sqrt{133}$ , find  $n$ .



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20. Give an example of intensive variable.



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21. Find the mean deviation about mean of two values  $x_1$  and  $x_2$ .



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22. Express standard deviation of the composite group in terms of number of observations, arithmetic means and variances of two groups.



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