Third Mid Term Test - 2024

Time: 1.30 Hours

Standard 8
MATHS
Part - A

Marks: 50

5x1=5

I. Choose the correct answer

1) .... is a parallelogram in which all its sides and angles are equal
   a) Rectangle   b) square   c) Rhombus   d) Quadrilateral

2) The range of the data 200, 15, 20, 103, 3, 196 is ....
   a) 197   b) 3   c) 20   d) 15

3) A .... is a graph of a continuous frequency distribution
   a) pie chart   b) frequency polygon
   c) Histogram   d) Bar graph

4) Data is a collection of ....
   a) numbers   b) words   c) Measurements   d) all the three

5) In a certain code 'M E D I C I N E' is coded as 'E O J D J E F M' then how is 'C O M P U T E R' written in the same code ....
   a) C N P R V U F Q   b) C M N Q T U D R   c) R F U V Q N P C   d) R N V F T U D Q

5x1=5

II. Fill in the blanks

6) The upper limit of class interval (25 - 35) is ....

7) Pie chart is a .... graph

8) The original message is called ....

9) .... is defined as the science which is concerned with communication in secured form.

10) Histogram is a graphical representation of .... data

5x1=5

III. Write True or False

11) Comparison of parts of a whole may be done by a pie chart.

12) A pie diagram is a circle broken down into component sectors.

13) If a class size is 10 and range is 80 then the number of classes are 9.

14) Inclusive series is a continuous series.

15) The process of converting the plain text to the cipher text is called encryption.

5x1=5

IV. Match the following.

(a = 0 0 . . . . . . z = 25)

16) Mathematics   -   18 20 01 19 17 00 02 19 08 14 13

17) addition   -   03 08 21 08 18 08 14 13

18) Subtraction   -   12 00 19 07 04 12 00 19 08 02 18

19) Multiplication   -   00 03 03 08 19 08 14 13

20) Division   -   12 20 11 19 08 15 11 15 02 00 19 08 14 13

Part - B

5x2=10

V. Answer the following (any five)

21) Find the range of the given data
    53, 42, 61, 9, 39, 63, 14, 20, 6, 26, 31, 4, 57

22) Define: Pie chart

23) Represent the following data in ungrouped frequency table which gives the number of children in 25 families
    1 3 0 2 5 2 3 4 1 0 5 4 3 1 3 2 1 5 2 1 1 2 6 2 1 4

24) Define frequency polygon

25) Frame additive cipher table (key=4)

26) What is cipher text ╉

27) A message like "Good Morning" written in reverse would instead be "Doog Gninrom". In the same way decode the sentence given below.

"ot dantsrednu taht scitamehtam nac eb decneirepxe erehwyreve ni erutan dna laer efil"

Part - C

VI. Answer the following (any 3)　　　　3x5=15

28) A survey gives the following information of food items preferred by people. Draw a pie chart

Items	Vegetables	Meat	Salad	Fruits	Sprouts	Bread
No. of people	160	90	80	50	30	40

29) The following table gives the number of literate females in the age group 10 to 45 years in a town.

Age group	10-15	16-21	22-27	28-33	34-39	40-45
No.of females	350	920	850	480	230	200

Draw a Histogram to represent the above data.

30) In a study of dental problem, the following data were obtained

Age	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of patients	5	13	25	14	30	35	43	50

Represent the above data by a frequency polygon.

31) Use the reflection table and find the correct word

(Hint) : A　B .... M
$$\updownarrow \quad \updownarrow \qquad \updownarrow$$
N　O　　　Z

i) J V A Q B J

ii) P B Z C H G R E　　GNOYR

iii) P U N V E

iv) P H O O B N E Q

32) Use Atbase cipher code and find the correct word. Hint: A　B .... Z
$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad \updownarrow \quad \updownarrow \qquad \updownarrow$$
$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad Z \quad Y \qquad A$$

i) G Z N R O

ii) V M T O R H S

iii) N Z G S V N Z G R X H

iv) H X R V M X V

v) H L X R Z O H X R V M X V

Part - D

VII. Practical Geometry (any one)　　　　1x5=5

33) Construct a rectangle BEAN with BE = 5 cm and BN = 3 cm. Also find its area.

(OR)

34) Draw the graph of y = 5x.

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