THIRD MID TERM TEST - 2025

MATHEMATICS

Time Allowed : 1.30 Hours] [Max. Marks : 50

I. Choose the correct Answer. 10x1=10

1 Data is a collection of ----------
a) numbers b) words
c) measurements d) all the three

2 Inclusive series is a -------- series.
a) Continuous b) Discontinuous c) both d) None of these

3 The difference between the largest value and the smallest value of the given data is --------
a) Range b) Frequency c) Variable d) None of these

4 The number of times an observation occurs in the given data is called ----------
a) Tally marks b) Data c) Frequency d) None of these

5 The graphical representation of ungrouped data is ----------
a) Histogram b) Frequency polygon
c) Pie chart d) all the three

6 Histogram is a graph of a ---------- frequency distribution.
a) Continuous b) Discontinuous c) Discrete d) None of these

7 In a class interval the upper limit of one class is the lower limit of the other class. This is -------- series.
a) Inclusive b) Exclusive c) Ungrouped d) None of these

8 A -------- is a line graph for the graphical representation of the continuous frequency distribution.
a) Frequency Polygon b) Histogram
c) Pie Chart d) Bar Graph

9 The best shopping choice is to ----------
a) Shop at brand name stores always buy b) Compare the choices before buying
c) The same thing my friends bought d) Buy at a regular shop always

10 Based on code language. If the word 'PHONE' is codes as 'SKRQH', How will 'RADIO' be coded?
a) SCGNH b) VRGNG c) UDGLR d) SDHKQ

II. Answer any six of the following questions. 6x2=12

11 Find the values:

y = x + 3		
x	0	
y		0

12 Find the range of the given data : 53, 42, 61, 9, 39.

13 Find the best buy if a pack of 5 chocolate bars of ₹175 or 3 chocolate bars for ₹114?

14 Frame Additive Cipher Table. (Key = 4)

15 Find the area of a rectangle whose length is 6 cm and breadth is 3.6 cm.

16 Prepare a frequency table for the data using Tally Mark.
3, 4, 2, 4, 5, 6, 1, 3, 2, 1, 5, 3, 6, 2, 1, 3, 2, 4.

17 Find the area of a square whose side is 8 cm.

18 Define : Range.

4x5=20

III. **Answer any 4 of the following :**

19. Form an ungrouped frequency distribution table for the weight of 25 students in STD IV given below:
25, 24, 20, 25, 16, 15, 18, 20, 25, 16, 20, 16, 15, 18, 25, 16, 24, 18, 25, 15, 27, 20, 20, 27, 25.

20. Draw a suitable piechart for the following data relating to the cost of construction of a house.

Particulars	Bricks	Steel	Cement	Timber	Labour	Others
Expenses	10%	15%	25%	10%	20%	20%

21. Draw a histogram for the following data.

Class Interval	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	5	15	23	20	10	7

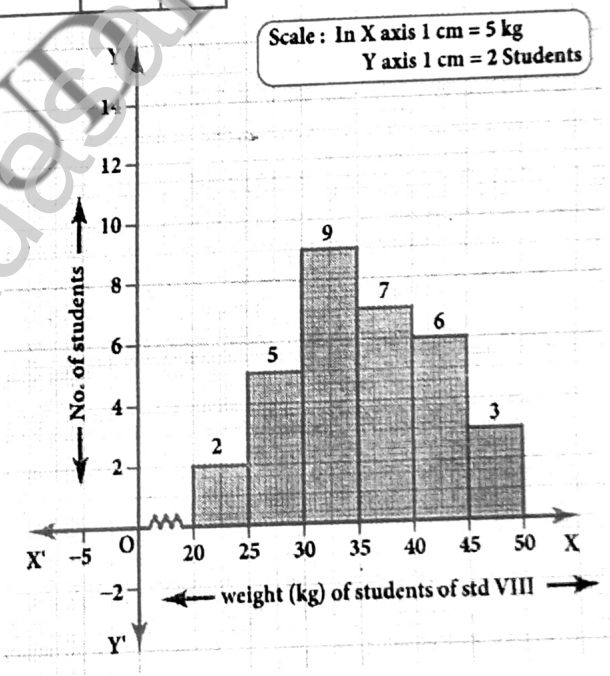
22. Fill in the blanks (Hint : Use Atbash Cipher A B C .....Z)
↓ ↓ ↓ ↓
Z Y X A

(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 = ----------

23. Find the values :

Sides of the squares (cm)	2	3	4	5	6
Area $(cm)^2$					

24. Observe the given histogram and answer the following question:
Hint : under weight : less than 30 kg ;
Normal weight : 30 to 45 kg ;
Obese : more than 45 kg.



1. What information does the Histogram represent?
2. Which group has maximum number of students?
3. How many of them are under weight?
4. How many students are obese?
5. How many students are in the weight group of 30 - 40 kg?

25. Find any five points (Co ordinates) of the equation. y = 5x.

1x8=8

IV. Answer all the question:

26. Construct a square LAMP of side 4 cm, Also find its area

(OR)

Construct a rectangle HAND with HA = 7 cm and AN = 4 cm. Also find its area.