



Standard 8 MATHS

Time: 1.30 Hrs.

Marks: 50

I. Choose the correct answer:**5×1=5**

- 1) The number of times an observation occurs in the given data is called _____
a) tally marks b) data c) frequency d) continuous
- 2) The graphical representation of ungrouped data is _____
a) histogram b) frequency polygon
c) pie chart d) all of these
- 3) If the word 'RADIO' is coded as 'UDGLR', how will 'PHONE' be coded?
a) SCGNH b) VRGNG c) SKRQH d) SDHKQ
- 4) When I go shopping I will buy
a) something that looks attractive b) something my friend has
c) something that I need to purchase d) the first thing I see in the store
- 5) The intersecting point of the line $x = 4$ and $y = -4$ is _____
a) (0, 4) b) (4, 0) c) (-4, 4) d) (4, -4)

II. Fill in the blanks:**4×1=4**

- 6) The upper limit of the class interval (25-35) is _____
- 7) Histogram is a graphical representation of _____ data.
- 8) Use Pigpen Cipher Code and write the code for the word 'ALGEBRA' is _____
- 9) Rectangle is a parallelogram whose all its angles are _____

III. Say True or False:**4×1=4**

- 10) $y = -9x$ not passes through the origin _____
- 11) Inclusive series is continuous series _____
- 12) Production of cycles in different years can be represented in a histogram _____
- 13) The original message is called plain text _____

IV. Answer any three of the following:**3×2=6**

- 14) Frame additive cipher table (key = 5)
- 15) Convert the given discontinuous series into a continuous series

Class	0-5	6-11	12-17	18-23	24-29
Frequency	7	10	9	5	12

- 16) Find the best buy of the following purchases Baskar buy $1\frac{1}{2}$ dozen of eggs for Rs.81 and Aruna buy 15 eggs for Rs.64.50?
- 17) Use Atbash Cipher text fill in the blanks:

(i) N Z G S V N Z G R X H

kindly send me your key answer to our email id - Padasalai.net@gmail.com

(ii) H L X R Z O H X R V M X V

- 18) Form a continuous frequency distribution table for the marks obtained by 20 students in a X-Std Exam
328, 470, 405, 375, 298, 326, 276, 362, 410, 255, 391, 370, 455, 229, 300, 183, 283, 366, 400, 495

v. Answer any three of the following:

3×5=15

- 19) 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

- 20) Construct a histogram from the following distribution of total marks of 40 students in a class

Marks	90-110	110-130	130-150	150-170	170-190	190-210
No.of students	9	5	10	7	4	6

- 21) Use Ceaser Cipher table set +4 and try to solve the given secret sentence
fvieo mr gshiw ger fi xvmgoc
- 22) Using given table find the total offer price and prepare a price list for ½ kg Laddu, 1 kg cake, 6 pockets of bread

Fresh Sweets and Bakery Products 20% off		
Laddu (1 Kg) Rs.245	Chocolate Cake (1 kg) Rs.550	1 Bread Pocket Rs.20

- 23) Match It (using a key - Reflection Table)
- i) J V A Q B J - CUBBOARD
 - ii) P B Z C H G R E G N O Y R - DOOR
 - iii) P U N V E - WINDOW
 - iv) P H O O B N E Q - CHAIR
 - v) Q B B E - COMPUTER

VI. Answer the following:

2×8=16

- 24) a) Construct a square RAMP of a diagonal 8 cm. Also find its area.

(OR)

- b) Construct a recangle HAND, HA = 7 cm and AN = 4 cm

- 25) a) Draw the graph of $y = x + 1$.

(OR)

- b) Draw the graph of $y = -3x$.
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