

# U-45-A

SET - I

SUMMATIVE ASSESSMENT - I - 2018-2019

MATHEMATICS

(English Medium)

PART - A & B

Class : VII

(Max. Marks : 80)

Time : 2.45 Hrs.

Instructions :

1. Question paper contains 2 parts (Part A & B).
2. Part - A & B should be given at the beginning of the exam only.
3. 15 minutes are allotted for reading the question paper (Part A & B) in addition to 2.30 hours for writing the answers.
4. Part-A answers should be written in a separate answer book. Write the answers to the questions under Part-B on the question paper itself.
5. There are three Sections in Part - A.
6. Answer all the questions.
7. Every answer should be visible and legible.
8. There is internal choice in Section - III.

Marks : 60

PART-A

Section - I

Note 1. Answer all the Questions.

2. Each Question carries 2 Marks 4 × 2 = 8

1. Solve  $3x - 5 = 5x + 11$
2. Find the median of the data 13, 16, 12, 14, 19, 12, 14, 13.
3. The side of a regular polygon is 2.5cm. If the perimeter of the polygon is 15cm, then find the number of sides of the polygon.
4. Represent  $\frac{3}{5}$  on number line.

(P.T.O)

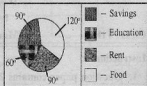
## Section - II

Note 1. Answer all the Questions.

2. Each Question carries 4 Marks

$5 \times 4 = 20$

5. Study the adjacent pie-chart which gives the expenditure of a family on various items during a month. Now answer the following :

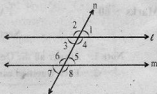


- on which items is the expenditure minimum ?
- on which items is the expenditure maximum ?
- If the monthly income of the family ₹ 12,000 then what is the expenditure on rent
- if the expenditure on food is ₹ 5000 then what is total income per month?

6. Which of the following measures form a triangle and which are not ? Give reasons.

- 6cm, 5cm, 8cm
- 4cm, 4cm, 8cm

7. In the adjacent figure  $\ell$ ,  $m$  are two straight lines. 'n' is transversal, then identify the following :



- the pairs of corresponding angles.
  - the pairs of alternate exterior angles.
  - alternate interior angles.
  - the pairs of interior angles on the same side of the transversal.
8. One of the exterior angles of a triangle is  $120^\circ$  and the interior opposite angles are in the ratio 2 : 3. Find the angles of the triangle.
9. The scale of a map is given as 1 : 300000. Two cities are 5cm apart on the map. Find the actual distance between them.

## Section - III

Note 1. Answer all the Questions.

2. Each Question has internal choice

3. Each Question carries 8 Marks

$4 \times 8 = 32$

10. (a) In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answers.

(i) Satwika answered all the questions and scored 30 marks through 10 correct answers.

(ii) Neeraja also answered all the questions and scored (-12) marks through 4 correct answers.

How many incorrect answers did each of them answer ?

(OR)

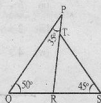
- (b) From the adjacent figure find the values of

(i)  $\angle PRS$

(ii)  $\angle PTS$

(iii)  $\angle STR$

(iv)  $\angle PRQ$



11. (a) Length of a rectangle exceeds its breadth by 5m. If the perimeter of the rectangle is 90m. Find its length and breadth

(OR)

- (b) A man sold two cycles for ₹ 3000 each. Gaining 20% on one and losing 20% on the other. Find his gain or loss percentage on the whole transaction?

12. a) Arrange the following fractions in ascending and descending order.

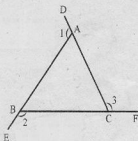
i)  $\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$

ii)  $\frac{1}{5}, \frac{3}{7}, \frac{7}{10}, \frac{13}{28}$

(OR)

- b) Prove that the sum of the exterior angles of  $\triangle ABC$  is  $360^\circ$

$(\angle 1 + \angle 2 + \angle 3 = 360^\circ)$ .



(P.T.O)

13. The performance of a student of VII class in two examinations is given in the table. Draw a double bar graph choosing appropriate scale.

Subject	Telugu	English	Maths	Science	Social
Exam-I	67	72	88	81	73
Exam-II	70	65	95	85	75

(OR)

- b) Represent each of the following on number lines.

(i)  $5 + (-2)$

(ii)  $6 - (-7)$

(iii)  $2 \times -6$

(iv)  $4 \times -5$

Regd.No. **U-45-B**Marks: **SET - I****SUMMATIVE ASSESSMENT - I - 2018-2019****MATHEMATICS**

(English Medium)

Class - VII

Part - B

Marks : 20

	AS - I					AS - II			AS - III			AS - IV			AS - V			Total/ Grade	
Q.No	1	2	5	10	11	14-21	6	12	22-25	7	26-29	3	8	9	30-31	4	13		32-33
Marks																			
Total																			

Name of the Student : ..... Roll No.: .....

**Note:**

- Answer all question in Part - B
- Each Question has 4 options. Write the capital letter indicating the answer in the given brackets.
- Marks will not be awarded for over writing answers.
- All questions carry equal marks.

14. The result when  $\frac{3}{4}$  is subtracted from  $\frac{5}{6}$  is \_\_\_\_\_ ( )

- A)  $\frac{1}{12}$       B)  $\frac{1}{12}$       C) -1      D) 1

15.  $(-1) \times (-1) \times (-1) \dots \dots 201$  times \* ( )

- A) -1      B) 1      C) -201      D) 201


16. Two angles of a triangle are  $75^\circ$  and  $35^\circ$  then the measure of third angle is ( )

- A)  $35^\circ$       B)  $45^\circ$       C)  $70^\circ$       D)  $75^\circ$

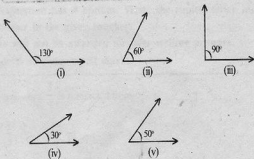
17. The product of two rational numbers is 5. One of the number is -10 then other one is ( )

- A)  $-\frac{1}{2}$       B)  $\frac{1}{2}$       C) -2      D) 2

(P.T.O)

18.  $\frac{5}{4}$  as percentage is ( )  
 A) 80%      B) 120%      C) 125%      D) 130%
19. An angle is double of its supplement then the measure of the angle is ( )  
 A)  $40^\circ$       B)  $60^\circ$       C)  $80^\circ$       D)  $120^\circ$
20. The mode of the data 2, 3, 5, 9, 6, 5, 9, 3, 5, 9 is ( )  
 A) 5 only      B) 9 only      C) both 5 and 9      D) No mode
21.  In the adjacent figure, AB is a straight line then the value of  $x$  is ( )  
 A)  $75^\circ$       B)  $65^\circ$       C)  $55^\circ$       D)  $45^\circ$
22. Which of the following is correct, ( )  
 A)  $-12 > -9$       B)  $-12 < -9$   
 C)  $(-12) + 9 > 0$       D)  $(-12) \times 9 > 0$
23. What should be subtracted from 0.1 to get 0.06 ( )  
 A) 0.4      B) 0.16      C) 0.04      D) 0.004
24. Which of the following are in proportion ( )  
 A) 3, 4, 6, 8      B) 4, 6, 6, 4      C) 5, 6, 7, 8      D) 5, 7, 9, 11
25. A data of 10 observations has a minimum value 15 and maximum value 25 then the mean of the data is always ( )  
 A) less than 15      B) greater than 25  
 C) the difference of 15 and 25      D) always between 15 to 25
26. The complement angle of  $x$  is ( )  
 A)  $x^\circ$       B)  $90^\circ - x^\circ$       C)  $180^\circ - x^\circ$       D)  $90^\circ$
27. Express 12% as a fraction is ( )  
 A)  $\frac{3}{25}$       B)  $\frac{4}{25}$       C)  $\frac{6}{25}$       D)  $\frac{3}{20}$

28. The linear equation representing "multiplying a number by 5 and adding to 8 it gives 20" is (if number is  $x$ ) ( )  
 A)  $8x + 5 = 20$                       B)  $20 = 13x$   
 C)  $5x + 8 = 20$                       D)  $5x - 8 = 20$
29. A triangle with only two equal sides is called ( )  
 A) scalene                                  B) Isosceles  
 C) Equilateral                          D) right angle triangle
30. The cost of 15 mangoes is ₹ 180 then the cost of 25 mangoes is ( )  
 A) ₹ 200                      B) ₹ 220                      C) ₹ 300                      D) ₹ 360
31.  $24.125 = 24 + \frac{A}{10} + \frac{B}{100} + \frac{C}{1000}$  then  $A + B + C$  is ( )  
 A) 3                                  B) 6                                  C) 8                                  D) 13
32. Which of the following pair of angles represents supplementary ( )



- A) (ii) & (iv)    B) (i) & (v)    C) (ii) & (iii)    D) (i) & (ii)

33. Which of the following figure represents  $\frac{5}{3}$  is ( )

