

SUMMATIVE ASSESSMENT - II - 2016 - 2017

MATHEMATICS

(English Version)

PART - A & B

(Max. Marks : 80)

Time : 2-45 Hrs.

Class : VII

Marks : 60

PART - A

Instructions :

- 1) In the time duration of 2 hrs 45 min. 15 minutes is exclusively allotted to read and understand the question paper.
- 2) The question paper comprises of Three Sections I, II, III.
- 3) All questions are compulsory.
- 4) There is no overall choice. However there is internal choice to the questions under Section - III.

SECTION - I

Note : 1) Answer all the questions.

2) Each question carries 2 marks.

$$4 \times 2 = 8$$

1. The acute angles of a right angle triangle are in the ratio 4:5, then find the acute angles.
2. Verify $[4 \times (-2)] \times 5 = 4 \times [(-2) \times 5]$ If they are equal, write the appropriate property.
3. Write 27.4 meters in centimeters
4. Write two situations which are in parallel lines in your surroundings.

[Turn Over...



SECTION - II

Note : 1) Answer all the questions.

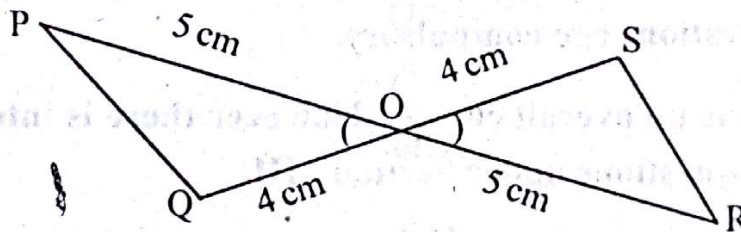
2) Each question carries 4 marks.

$$5 \times 4 = 20$$

5. Find interest and total amount paid, if a person take a loan of Rs.6500 for 4 years at 9% rate of interest per annum.
6. The attendance of the children in a school in 6 days are shown in the table. Find average attendance of the school.

Day	1	2	3	4	5	6
Attendance	246	238	212	248	256	216

7. Are the triangles in adjacent figure, congruent or not? Give reasons.



8. Write the types of triangles according to the sides and angles.
9. Ramana buys 8 kgs Tomatoes. If the cost of 5 kgs is Rs.65. How much will Ramana pay?

SECTION - III

Note : 1) Answer all the questions.

2) Answer any one from Internal choice of each questions.

3) Each question carries 8 marks.

$$4 \times 8 = 32$$

10. a) Length of rectangle is 8 metres less than twice its breadth. If the perimeter of the rectangle is 56 metres. Find its length and breadth.

(OR)

b) Simplify

i). $5\frac{3}{5} + 4\frac{2}{5}$ ii) $3\frac{1}{3} - 2\frac{2}{3}$ iii) $4\frac{5}{7} \times 3\frac{2}{3}$ iv) $5\frac{6}{8} \div 2\frac{3}{4}$

[Contd...3

11. a) A man sold two cycles for Rs.3000 each gaining 20% on one and losing 20% on the other. Find his gain or loss percentages on the whole transaction.

(OR)

- b) A disaster relief team consists of engineers and doctors in the ratio 3:4.

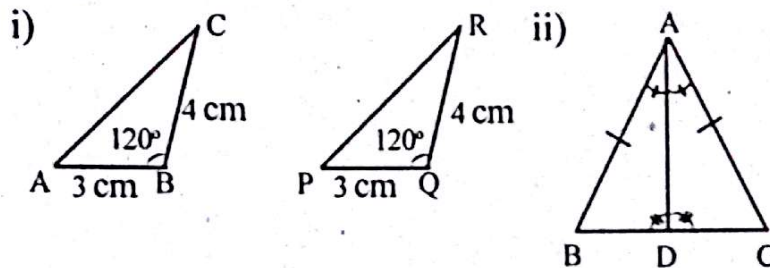
i) : If there are 18 engineers, find the number of doctors.

ii) : If there are 56 doctors, find the number of engineers.

12. a) Prove that sum of the angles in a triangle are 180° .

(OR)

- b) Prove the pairs of triangles given below are congruent or not?



Draw a Bar Graph

Class	VI	VII	VIII	IX	X
No. of Students	246	238	212	248	256

(OR)

- b) Draw a Pie diagram for the following data about time spent by a child during a day is given in the table.

Time spent for	Sleep	School	Play	Others
Time spent	8 hrs	6 hrs	2 hrs	8 hrs



Regd. No. : **45-A**Marks : **SUMMATIVE ASSESSMENT - II - 2016 - 2017****MATHEMATICS**

(English Version)

PART - B**Class : VII****(Marks : 20)**

Academic Standards	A.S. - 1						A.S. - 2				A.S. - 3			A.S. - 4			A.S. - 5		Total	Grade
Question No.	1	5	6	10	11	14 to 19	2	7	12	20 21	3	8	22 23	4	9	24 to 29	13	30 to 33		
Marks																				
Total																				

Name of the Student Roll No.

Instructions :

- 1) Each question carries equal marks.
- 2) Each question has 4 options. Write the capital letters indicating the answer in the given bracket.
- 3) Marks are not awarded for over writing answers.

SECTION - IV**Note :** 1) Answer all the questions.2) Each question carries 1 mark. 20 x 1 = 2014. The value of $17 - (-14)$ is ()

- A) 3 B) -3 C) 31 D) -31

15. Mixed fraction of $\frac{6}{7} \times 2$ is ()

- A)
- $6\frac{2}{7}$
- B)
- $1\frac{5}{7}$
- C)
- $2\frac{6}{7}$
- D)
- $\frac{12}{7}$

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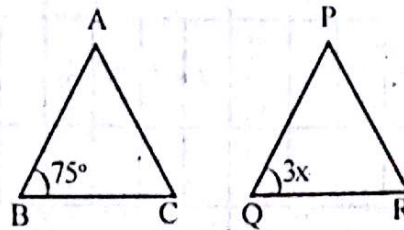
16. One angle of an equilateral triangle is ()
 A) 90° B) 80° C) 180° D) 60°

17. The value of x when $2 : 5 = 6 : x$ ()
 A) 6 B) 15 C) 18 D) 10

18. The median of first 5 even natural numbers ()
 A) 6 B) 8 C) 10 D) 30

19. In the adjacent figures
 $\triangle ABC \cong \triangle PQR$, then the
 value of $x =$

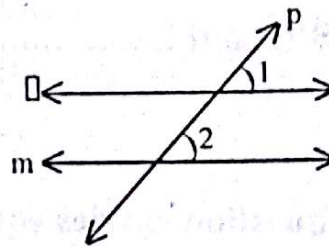
- A) 75° B) 50°
 C) 25° D) 15°



20. In the figure $l \parallel m$ and $\angle 1 = \angle 2$

because $\angle 1$ and $\angle 2$ are

- A) Alternate interior angles
 B) Corresponding angles
 C) Alternate exterior angles
 D) Vertically opposite angles



21. If two lines intersect each other, then the number of common points they have ()
 A) 1 B) 2 C) 4 D) Infinity

22. Median of triangle means ()

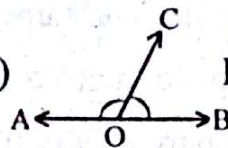
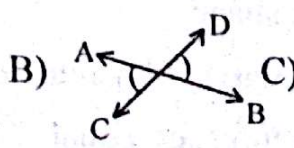
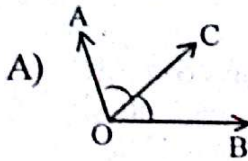
- A) The line segment joining side of the triangle and opposite vertex
 B) A line segment perpendicular to a side of the triangle
 C) A line segment which passes through the mid point of a side and opposite vertex
 D) All the above

[Contd...3

23. Two figures are congruent means ()
A) They have same size and same shape
B) If we super impose the two figures, they must be coincide
C) Corresponding parts of the figures are equal
D) Above all
24. The length of a rectangle is twice of its breadth. The perimeter is 24 cm, then the length and breadth are ()
A) 4 cm, 8 cm
B) 8 cm, 4 cm
C) 4 cm, 4 cm
D) None
25. Ravi's father age is five times of Ravi's age. The age of Ravi's father is 35 years, then Ravi's age is ()
A) 40 years
B) 30 years
C) 7 years
D) 5 years
26. 20 Kgs of Rice is needed for a family of 4 members. The number of Kgs of Rice is required for 8 members of family ()
A) 80 Kgs
B) 30 Kgs
C) 40 Kgs
D) 50 Kgs
27. In a class there are 35 girls and 15 boys, then the percentage of girls is ()
A) 70% B) 30% C) 50% D) None
28. The cost of one dozen bananas is Rs.20, then the cost of 9 bananas is ()
A) Rs.9 B) Rs.15 C) Rs.18 D) None
29. A creature flaps its wings 110 times in 10 seconds. How many times will it flaps its wings in 1 minute? ()
A) 330 B) 1110 C) 660 D) 3330

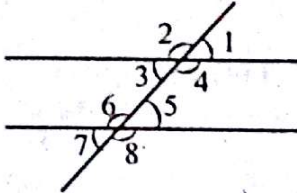
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30. Which figure shows linear pair? ()



D) Above all

31.



Pairs of vertically opposite angles in the given figure ()

i) 2, 4 and 1, 3

ii) 5, 7 and 6, 8

iii) 1, 4 and 5, 8

iv) 3, 5 and 2, 8

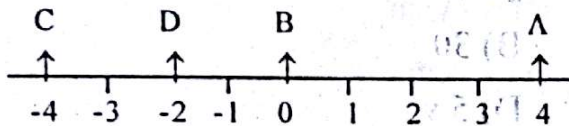
A) I and IV are true

B) II and III are true

C) I, II are true

D) All are true

32.



From the figure the additive inverse of -4 is ()

A) A

B) B

C) C

D) D

33. The figure shows $3 \times (-2) = -6$ ()

