

SUMMATIVE ASSESSMENT - I - 2017-2018

MATHEMATICS PAPER

(English Medium)

PART - A & B

Class : VIII

(Max. Marks : 80)

Time : 2.45 Hrs.

Instructions :

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

Marks : 60

PART-A**Section - I****Note 1. Answer all the Questions.****2. Each Question carries 2 Marks 4 × 2 = 8**

1. Multiply $\frac{2}{11}$ by the reciprocal of $\frac{-5}{14}$
2. Check whether $9m^2 - 10n^2 = 1$ or not when $m = 3$ and $n = 2$
3. Express 4.37×10^5 in the usual form
4. Two supplementary angles differ by 34. Find the angles

Section - II**Note: 1. Answer all the Questions.****2. Each Question carries 4 Marks 5 × 4 = 20**

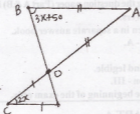
5. Simplify $\left(\frac{2}{5}\right)^{-1} \times \left(\frac{25}{4}\right)^{-2}$
6. The printed price of a book is Rs. 150 and discount is 15%. Find the actual amount to be paid after discount.

7. Verify the following:

$$\left[\frac{3}{4} + \frac{-1}{2} \right] + \frac{-3}{2} = \frac{3}{4} + \left[\frac{-1}{2} + \frac{-3}{2} \right]$$

8. Express 27^{-4} as a power with base 3

9. Find "x" in the figure



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) The length of a rectangle shaped park exceeds its breadth by 17 metres if the perimeter of the park is 178 metres, find the dimensions of the park.

(OR)

b) The present age of Vijaya's mother is four times the present age of Vijaya. After 6 years the sum of their ages will be 62 years. Find their present ages.

11. If 36 trousers of equal size can be stitched with 64 metres of cloth. Find the length of the cloth required for each trouser.

(OR)

b) Two equal sides of a triangle are each 5 metres less than twice the third side. If the perimeter of the triangle is 55 metres, find the length of its sides?

12. a) Which of the following statements are true? false? Justify your answer.

i) Every rectangle is a parallelogram.

ii) Every rhombus is a square

iii) Every square is a rhombus

iv) All parallelograms are rectangles.

(OR)

b) Give reasons/ examples to make the following statements true.

i) Commutative property is not holds good in subtraction of rational number. (Hint: $a - b \neq b - a$)

ii) Associative property holds good in multiplication of rational numbers.
Hint: $(a \times (b \times c)) = (a \times b) \times c$.

13. Represent $\frac{-11}{5}$ and $\frac{11}{5}$ on the number line

(OR)

b) Construct parallelogram PQRS with $PQ = 4.5$ cm, $QR = 3$ cm and $\angle PQR = 60^\circ$

Regd.No.

48-B

Marks:

SUMMATIVE ASSESSMENT - I - 2017-2018**MATHEMATICS PAPER**

(English Medium)

Class - VIII

Part - B

Time : 30minutes

Marks : 20

	AS - I					AS - II				AS - III			AS - IV			AS - V		
Q.No	1	5	6	10	11	14-19	2	7	12	20-21	3	8	22-23	4	9	24-29	13	30-33
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 are not awarded for over writing answers.
- All questions carry equal marks.

14. If $\sqrt{2} = 1.414$ then the value of $\sqrt{8}$ is ()

- A) 2.828 B) 1.828 C) 2.282 D) 2.288

15. If Market Price (M.P) = Rs 20, discount = Rs 2 then discount % is ()

- A) 5% B) 10% C) 15% D) 20%

16. $0.\overline{57} =$ ()

- A)
- $\frac{57}{99}$
- B)
- $\frac{19}{33}$
- C)
- $\frac{19}{11}$
- D) A and B

17. If $\frac{2x}{3} = 18$ then value of 'x' is ()

- A) 6 B) 18 C) 27 D) 36

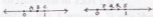
18. If $m = 3$ and $n = 2$ then the Value of $2m^2n^2$ is ()
 A) 72 B) 36 C) 48 D) 54
19. If 5 is subtracted from 4 times of a number gives 19. Then the number is ()
 A) 4 B) 6 C) 8 D) 5
20. Which of the following is not a rational number? ()
 A) 1 B) $1\bar{3}$ C) $\sqrt{5}$ D) $\sqrt{9}$
21. Which of the following is not true ()
 A) $(x^{-3})^2 = x^{-6}$ B) $x^{-2} = \sqrt{x}$ C) $\frac{x^{-3}}{x^{-2}} = \frac{1}{x}$ D) None
22. $a^m \times b^m =$ ()
 A) $\left(\frac{a}{b}\right)^m$ B) $(ab)^m$ C) $\left(\frac{b}{a}\right)^m$ D) $(ab)^{2m}$
23. $a \times b = b \times a$ is ()
 A) Closure property B) Commutative property
 C) Associative property D) Identity property
24. Present age of Arun is 'x' years. After 5 years his age will be ()
 A) $\frac{x}{5}$ years B) $(x-5)$ years C) $(x+5)$ years D) $(5-x)$ years
25. The cost of 7 metres of cloth is Rs. 84. Then the cost of 5 metres of cloth is ()
 A) Rs. 50 B) Rs. 60 C) Rs. 65 D) -Rs. 70
26. Which of the following is a linear equation? ()
 A) $4x^2 + 5 = 0$ B) $4x + 5 = 1$ C) $2xy + z = 1$ D) All the above

27. The difference of two linear angles is 34 then the smaller angle is ()
 A) 49° B) 107° C) 73° D) 83°
28. The compound ratio of 3 : 4 and 2 : 3 is ()
 A) 2 : 1 B) 2 : 3 C) 3 : 2 D) 1 : 2
29. The cost of an item in 2017 is Rs. 400, If it increases at the rate of 10% every year then the cost of the item in 2019 is ()
 A) Rs. 480 B) Rs. 460 C) Rs. 484 D) Rs. 500

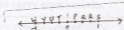
30. Among the given figures, kite is ()



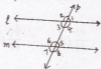
31. Which letter represent $\frac{2}{3}$ in the following number lines ()



- A) B B) Q C) B and Q D) R
32. Which rational number can be represented as letter 'T'?



- A) $\frac{1}{4}$ B) $-\frac{1}{4}$ C) $\frac{3}{4}$ D) $-\frac{3}{4}$
33. A pair of interior angles on the same side of transversal are ()



- A) (1, 2) B) (2, 6) C) (3, 6) D) (3, 5)