48

SUMMATIVE ASSESSMENT - I - 2016-2017

MATHEMATICS

(English Version)

PART - A & B

Class : VIII **(Max. Marks : 80)** **[Time : 2:45Hrs.**

Marks : 60 **Part - A**

Instructions:

1. **15 minutes of time is alloted for reading the question paper.**
2. **Answer ALL questions.**
3. **Answer for questions under Part-A should be written in a separate answer book.**
4. **There is internal choice for questions in Section-III, Part-A.**

SECTION - I

Note:

(i) Answer all questions.

(ii) Each question carries 2 marks. **4 x 2 = 8 Marks**

1. Find the value of $\sqrt{2.56}$.
2. Can you find the reciprocal of zero (0). Is there any rational number such that when it is multiplied by zero gives 1 ? Mention the reasons.
3. Write the formula for calculating amount with compound interest and explain the terms in the formula.
4. The area of a square field is 1024 Sq.Units. Then find the length of side of the field.

SECTION - II

Note:

(i) Answer all questions.

(ii) Each question carries 4 marks. **5 x 4 = 20 Marks**

5. Represent $\frac{-2}{13}, \frac{3}{13}, \frac{5}{13}, \frac{-9}{13}$ on the number line

[Turn Over...

6. If P = 5 and Q = 3 then find the value of $2P^3 + 5Q^2 - 4P^2Q$

7. Write the properties that are used in computing.

$$\frac{2}{5} \times [5 \times \frac{7}{6}] + \frac{1}{3} \times [3 \times \frac{4}{11}]$$

8. Find the area of rectangular park which is $18\frac{3}{5}$ m long and $8\frac{2}{3}$ m breadth.

9. For which value of y the equation $\frac{y}{3} - \frac{y}{4} = 14$ is true?

SECTION - III

Note:

1. **Answer all the questions.**
2. **Choose any one from each question.**
3. **Each question carries 8 marks.** **4 x 8 = 32 Marks**

10. (a) Find the value of n in $7^{2n+1} \div 49 = 7^3$

(OR)

(b) A gardner wishes to plant 8289 plants in the form of a square and found that there was 8 plants left. How many plants were planted in each row?

11. (a) A table was sold for Rs. 2,142 at a gain of 5%. At what rate should it be sold to gain 10%.

(OR)

(b) Calculate compound interest on Rs. 1000 over a period of 1 year at 10% per anum, if intrest is compounded quarterly.

12. (a) Is subtraction associative in rational numbers explain with an example.

[Contd...3

(OR)

(b) Prameela solved some problems of exponents in the following way. Do you agree with the solution? If not why? Justify your argument.

A) $3^{-4} \times 3^{-2} = 3^{8}$ B) $\frac{7^{5}}{7^{2}} = 7^{3}$

C) $\left(5^{2}\right)^{3} = 5^{5}$ D) $5^{-2} = -25$

3. (a) Construct a parallelogram PQRS with PQ = 4.5 cm, QR = 3 cm and $\angle PQR = 60°$

(OR)

(b) Construct a Rhombus CART with CR=6cms and AT=4.8cms.

Regd. No. : | **48-A** | Marks :

SUMMATIVE ASSESSMENT - I - 2016-2017
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PART - B

Class : VIII **Marks : 20**

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

	AS-1					AS-2				AS-3			AS-4			AS-5		Total	Grade
Q.No	1	6	10	11	14 to 23	2	8	12	24 to 25	3	7	26 to 27	4	8	28 to 33	5	13		
Marks																			
Total																			

Marks : 20 **Part - B**

Instructions:

1. **Answer all the questions in Part-B.**
2. **Each question has 4 options. Write the capital letter indicating the answer in the given brackets.**
3. **Marks are not awarded for over witing answers.**
4. **All questions carry equal marks.**

SECTION - IV

Instructions:

1. **Answer all the questions.**
2. **Each question carries 1 mark.** **20 x 1 = 20 Marks**

14. Which of the following is a multiplicative inverse of $\frac{-3}{4}$? [ ]

A) 1 B) $\frac{3}{4}$ C) $\frac{4}{3}$ D) $\frac{-4}{3}$

15. Percentage of increase in doubling a number [ ]

A) 200% B) 100% C) 300% D) 50%

16. The compound ratio of 5 : 7 and inverse of 2 : 9 is [ ]

A) 45 : 14 B) 14 : 45 C) 63 : 10 D) 10 : 63

[Turn Over...

17. How many minimum number of measurements are required to construct a Rectangle [ ]

A) 2 B) 3 C) 4 D) 5

18. $(-5)^{-3} \times (-5)^{-4} =$ —— [ ]

A) $(-5)^{7}$ B) $(-5)^{-7}$ C) $\frac{1}{5^7}$ D) $\frac{1}{(-5)^{-7}}$

19. $\sqrt{625} + \sqrt{441} =$ [ ]

A) 47 B) $\sqrt{1066}$ C) 46 D) 45

20. Number of integers lies between 4^2 and 5^2 [ ]

A) 8 B) 10 C) 9 D) 11

21. If $\sqrt{9604} = 98$ then $\sqrt{96.04} =$ [ ]

A) 98 B) 9.8 C) 0.98 D) 0.098

22. If $\frac{X}{2} + \frac{X}{3} = 5$ then X = [ ]

A) 5 B) 6 C) 4 D) 30

23. $(2^\circ - 3^\circ) \times 4^\circ =$ [ ]

A) 4 B) 3 C) 0 D) -4

24. Which of the following is not currect? [ ]

A) $\frac{X^{-3}}{X^{-2}} = \frac{1}{X}$ B) $X^{-2} = \sqrt{X}$

C) $(X^{-3})^{2} = X^{-6}$ D) $X^{-3} \times X^{-5} = X^{-8}$

25. Statement-I : Every Rectangle is a parallelogram
Statement-II: Every Parallelogram is a Rectangle [ ]

A) Statements I, II are true

B) Statement I is true and II is false

C) Statement I is false and II is true

D) Statements I and II are false

26. Which of the following is a linear equation? [ ]

A) $2X^2 + 5 = 0$ B) $4X + 5 = 1$

C) $2XY + Z = 5$ D) All the above

[Contd...3

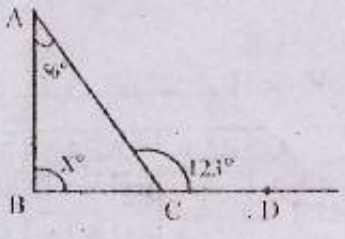
27. The $\frac{p}{q}$ form of 0.35 is [ ]

A) $\frac{35}{10}$ B) $\frac{35}{1000}$ C) $\frac{0.35}{100}$ D) $\frac{35}{100}$

28. In the adjucent figure value of 'x' [ ]

A) 67° B) 157°

C) 179° D)360°



29. The cost of one pair of shoes is Rs. 550 , 10% discount is allowed. Then the selling price of shoes is [ ]

A) Rs. 505 B) Rs. 495 C) Rs. 485 D) Rs. 475

30. If two complementary angles differ by 12° the angles are [ ]

A) 45°, 45° B) 60°, 30° C) 51°, 39° D) 59°, 31°

31. Which of the following are pythogorian triplets ? [ ]

A) 1, 2, 3 B) 4, 5, 6 C) 3, 4, 5 D) 5, 6, 7

32. The cost of one pair of clothes is Rs. 450. If 6% of sales tax is levied on it then the bill to pay. [ ]

A) Rs. 577 B) Rs. 477 C) Rs. 467 D) Rs. 423

33. Hema is 24 years yelder to her daughter Damini. If the Hema age is 3 times to that of Damini, then Damini is age is [ ]

A) 28 B) 12 C) 16 D) 14