SET - I

SUMMATIVE ASSESSMENT - I - 2018-2019
MATHEMATICS
(English Medium)

PART - A & B

Class : VIII   (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 $4 \times 2 = 8$

1. Find a rational number between $\dfrac{2}{3}$ and $\dfrac{3}{4}$.

2. The numbers 257 and 5050 are not perfect squares. Give reasons.

3. "Size of the bacteria is 0.0000004m". Express the information in the standard form.

4. In the year 2012, it was estimated that there were 36.4 crore internet users worldwide. In the next ten years, that number will be increased by 125%. Estimate the number of internet users worldwide in 2022.
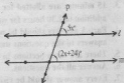
Section - II

Note   1. Answer all the Questions.

        2. Each Question carries 4 Marks   **5 × 4 = 20**

5. If 8 out of 24 students scored below 75% marks in a test. Find the ratio of students scored below 75% marks to the students scored 75% and above marks.

6. A man walks 10 km, then travels a certain distance by train and then by bus as far as twice by the train. If the whole journey is of 70 km, how far did he travel by train.

7. In the figure $\ell \parallel$ m, and p is a transversal. find the value of 'x' giving necessary reasons.

8. If $\triangle ABC \cong \triangle NMO$, name the congruent sides and angles.

9. Find the amount and the compound interest on ₹ 10000 at 5% per annum, for 2 years compounded annually.

Section - III

Note 1. Answer all the Questions.

      2. Each Question has internal choice

      3. Each Question carries 8 Marks   **4 × 8 = 32**

10. Two years ago the mean age of 40 people was 11 years. Now a person left the group and the mean age is changed to 12 years. Find the age of the person who left the group.

(OR)

In a pack, there are 5 books, each of thickness 20mm and 5 paper sheets each of thickness 0.016 mm. What is the total thickness of the pack ?

11. Jyothi went to a super market. The price changes are as follows. The price of rice reduced by 5%, jam and fruits reduced by 8% and oil and dal increased by 10%. Help Jyothi to find the changed prices in the given table.

Item	Original price/kg	Changed price
Rice	₹ 40	
Jam	₹ 120	
Apples	₹ 280	
Oil	₹ 150	
Dal	₹ 80	

(OR)

If $\frac{2}{5}$ of a number exceeds $\frac{1}{7}$ of the same number by 36, find the number.

12. Test whether the numbers 243, 516, 729, 8000 are perfect cubes or not.

(OR)

Simplify $\left[\frac{4}{7}\right]^7 \times \left[\frac{7}{4}\right]^2$ by giving reasons.

13. Construct rectangle FLAG with sides FL = 6cm and LA = 4.2cm.

(OR)

The following table gives the distribution of 45 students across the different levels of intelligent quotient. Draw the histogram for the data.

IQ Level	60-70	70-80	80-90	90-100	100-110	110-120	120-130
No. of Students	2	5	6	10	9	8	5

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SUMMATIVE ASSESSMENT - I - 2018-2019

MATHEMATICS

(English Medium)

Class - VIII

Part - B

Marks : 20

Q.No	AS - I					AS - II			AS - III		AS - IV		AS - V			Total/Grade
	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:

1. Answer all 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 written answers.

4. All questions carry equal marks.

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14. The value of 'x' in $4x - \dfrac{5}{3} = 9$ is ( )

    A) $\dfrac{22}{12}$ B) $\dfrac{32}{12}$ C) $\dfrac{88}{12}$ D) $\dfrac{128}{12}$

15. If $2^{x-7} = 1$, then the value of x is ( )

    A) $\dfrac{-6}{7}$ B) -1 C) $\dfrac{8}{7}$ D) 7

16. The compound ratio of 5 : 7 and inverse ratio of 2 : 9 is ( )

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

17. The value of $\sqrt{625 + \sqrt{441}}$ is ( )

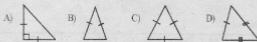   A) 26   B) $\sqrt{1066}$ C) 46   D) 1089

18. The arithmetic mean of first 10 natural numbers is

    A) 4.5   B) 5.5   C) 45   D) 55

19. The median of the scores 14, 36, 25, 28, 35, 32, 56, 42, 50 is   (   )

    A) 14   B) 32   C) 35   D) 50

20. Of the given, Pythagorean triplet is   (   )

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

21. The mode of first 10 natural numbers is   (   )

    A) 0   B) 1   C) 5   D) does not exist

22. Of the following, measure of central tendency is   (   )

    A) Arithmetic Mean   B) Median
    C) Mode   D) All the above

23. Number of lines of symmetry for the letter 'H' is   (   )

    A) 1   B) 2   C) 3   D) 4

24. The marked price of a cycle is ₹ 3600 and its selling price is ₹ 3312 then discount % is   (   )

    A) 8%   B) 8.69%   C) 9%   D) 10%

25. The M.P of one pair of shoes is ₹ 550. If 10% discount is allowed on, then the S.P of shoes is   (   )

    A) ₹ 595   B) ₹ 495   C) ₹ 485   D) ₹ 475

26. Number of integers lie between 4^2 and 5^2 is   (   )

    A) 4   B) 8   C) 9   D) 10

27. The number (121) is   (   )

    A) Prime number   B) Odd number
    C) Even number   D) Cube number

28. Of the given, which have more number of lines of symmetry is   (   )

    A) Triangle   B) Square
    C) Regular Pentagon   D) Regular Hexagon

29. ΔABC is similar to ΔPQR then PR is ( )

A) 1   B) 2.5

C) 3   D) 5

30. Of the given figures, figure having no line of symmetry is ( )

A)   B)   C)   D)

31. Letter having one line of symmetry is ( )

A) X   B) I   C) T   D) O

32. Different letter according to the number of lines of symmetry is ( )

A) T   B) U   C) V   D) X

33. Of the given, different figure is ( )

A)   B)   C)   D)