SAINIK SCHOOL BIJAPUR
PERIODIC TEST -3

CLASS: VII
DATE: 21-1-2022

MATHEMATICS
SET-A

Max. Marks : 50
Time allowed : 90 Min.

General Instructions:

1. This question paper is divided into four Sections A, B, C and D
2. Section A comprises of 10 questions of 1 mark each.
   Section B comprises of 5 questions of 2 marks each.
   Section C comprises of 6 questions of 3 marks each and
   Section D comprises of 3 questions of 4 marks each.

SECTION-A

Marks

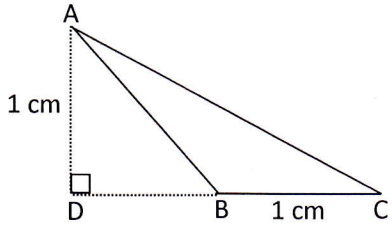
1. How many rational numbers are there between two rational numbers? 1
   (A) 1 (B) 0 (C) unlimited (D) 100

2. Which is greater number in the following: 1
   (A) $\frac{-1}{2}$ (B) 0 (C) $\frac{-1}{2}$ (D) -2

3. The area of a rectangular field is 250 m^2. If the breadth of the field is 10 m, find its length. 1
   (A) 25 m (B) 50 m (C) 100 m (D) 125 m

4. A rectangular wire of length 40 cm and breadth 20 cm is bent in the shape of a square. The side of the square is 1
   (A) 10 cm (B) 20 cm (C) 30 cm (D) 40 cm

5. The area of Δ ABC is 1
   (A) 1 cm^2
   (B) 2 cm^2
   (C) 4 cm^2
   (D) 12 cm^2



6. An algebraic expression containing three terms is called 1
   (A) a monomial (B) a binomial (C) a trinomial (D) All of these

7. Coefficient of x in $-9xy^2z$ is 1
   (A) 9yz (B) $-9yz$ (C) $9y^2z$ (D) $-9y^2z$

8. The value of $3x^2 - 5x + 3$ when $x = 1$ is 1
   (A) 1 (B) 0 (C) -1 (D) 11

9. $(-7)^5 \times (-7)^3$ is equal to 1
   (A) $(-7)^8$ (B) $-(7)^8$ (C) $(-7)^{15}$ (D) $(-7)^2$

10. $(1^0 + 2^0 + 3^0)$ is equal to 1
    (A) 0 (B) 1 (C) 3 (D) 6

SECTION-B

11. Reduce $\frac{48}{-60}$ to the standard form. 2

12. Which is greater number: $\frac{2}{3}$ or $\frac{5}{2}$ 2

13. Find the value of the expression $2x^2 - x - 2$, when $x = -1$. 2

14. Find m, if $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^6 = \left(\frac{2}{9}\right)^{2m-1}$.

15. The perimeter of a rectangle sheet is 100 cm. if the length is 35 cm, find its breadth. 2

SECTION-C

16. List three rational numbers between -2 and -1. 3

17. Represent the rational number $\frac{3}{4}$ the number line. 3

18. Classify into monomials, binomials and trinomials. 3

(i) $4y - 7z$ (ii) $x + y - xy$ (iii) 100 (iv) $ab - a - b$ (v) $4p^2q - 4pq^2$ (vi) $a^2 + b^2$

19. Evaluate: $\frac{3^4 \times 12^3 \times 3^6}{2^5 \times 6^3}$. 3

20. Construct Δ ABC in which $m\angle A = 60°$, $m\angle B = 30°$ and AB = 5.8 cm. 3

21. If the circumference of a circular sheet is 154 m, find its radius. Also find the area of the sheet $\left(\text{Take } \pi = \frac{22}{7}\right)$. 3

SECTION-D

22. From the sum of $4 + 3x$ and $5 - 4x + 2x^2$, subtract the sum of $3x^2 - 5x$ and $-x^2 + 2x + 5$. 4

23. A garden is 90 m long and 75 m broad. A path 5 m wide is to be built outside and around it. Find the area of the path. Also find the area of the garden in hectare. 4

24. Fill in the boxes with the correct symbol out of >, <, and =. 4

(i) $-\frac{8}{5} \square -\frac{7}{4}$ (ii) $\frac{1}{-3} \square \frac{-1}{4}$ (iii) $\frac{5}{-11} \square \frac{-5}{11}$ (iv) $\frac{1}{-2} \square \frac{-2}{3}$

Note: Send clear and readable answer papers in pdf format as one attachment to email id of respective subject teacher. VII A : revankumar.desai11ssbj@gmail.com
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