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SECOND PERIODICAL ASSESSEMENT SEPTEMBER 2020

Class: IX

Subject: Mathematics

Marks: 20

General Instructions:

- 1) This question paper contains 8 questions divided into four sections A, B, C and D.
 - Section A comprises 2 questions of 1 mark each.
 - Section B comprises 2 questions of 2 marks each.
 - Section C comprises 2 questions of 3 marks each.
 - Section D comprises 2 questions of 4 marks each.

(Use MATHEMATICS H W Book to ANSWER)

Section - A

I) Fill in the blanks:

1X2=2

- 1) The value of $64^{\frac{1}{2}}$ is _____
- 2) The degree of polynomial $4 - Y^2$ is _____

Section - B

II) Solve the following:

2X2=4

- 3) Rationalize the denominator for $\frac{1}{\sqrt{5}+\sqrt{2}}$
- 4) Say $x^{10} + y^3 + t^{50}$ is polynomial in one variable or not. Give reason for your answer.

Section - C

III) Solve as directed:

3X2=6

5) Classify the following as linear, quadratic and cubic polynomial:

i) $x^2 + x$

ii) $x - x^3$

iii) $y + y^2 + 4$

iv) $1 + x$

v) $3t$

vi) r^2

vii) $7x^3$

6) Find the remainder when $x^3 + 3x^2 + 3x + 1$ is divided by $5 + 2x$

Section - D

IV) Do as directed:

4X2=8

7) Find the value of the polynomial $5x - 4x^2 + 3$ at:

i) $x = 0$

ii) $x = -1$

iii) $x = 2$

iv) $x = 1$

8) i) Simplify: $7^{\frac{1}{2}} \cdot 8^{\frac{1}{2}}$

[1 Mark]

ii) Represent $\sqrt{9.3}$ on the number line

[3Marks]

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