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FIRST PERIODICAL ASSESSMENT   AUGUST – 2020
Grade: IX   SUBJECT: MATHEMATICS   Marks: 20

General Instructions:

1) This questions paper contains 9 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 3 questions of 2 marks each.
   - Section D comprises 2 questions of 4 marks each.

Section – A

I) State whether the following statements are True or False. Give reason for your answers: 1X2=2

   1) Every integer is a whole number.

   2) Every point on the number line is of the form $\sqrt{m}$, where m is a natural number.

Section – B

II) Solve the following: **2X2=4**

   3) Classify the following as rational and irrational:

   i) $\sqrt{23}$ ii) $\sqrt{225}$ iii) 0.3796

   iv) 7.478478   v) 0.01001000100001. . . . .

   4) Show how $\sqrt{5}$ can be represented on the number line.

Section – C

III) Solve as directed (any two):   **3X2=6**

   5) Find five rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$.

   6) Express 0.9999 …….. in the form of $\frac{p}{q}$. Are you surprised by your answer?

   7) Write $\frac{3}{13}$ in decimal form and say, what kind of a decimal expansion is it?

Section – D

IV) Do as directed: **4X2=8**

   8) Visualize 3.765 on the number line, using successive magnification.

   9) You know that $\frac{1}{7}$ =$0.\overline{142857}$. Can you predict what the decimal expansions of $\frac{2}{7},\frac{3}{7},\frac{4}{7},\frac{5}{7},\frac{6}{7}$

   are without actually doing the long division ? If so, how?

   [Hint : Study the remainders while finding the value of $\frac{1}{7}$ carefully.]

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