

## CLASS 10 - MATHEMATICS

Time Allowed: 3 hours

Maximum Marks: 80

### General Instructions:

1. This question paper contains two parts A and B.
2. Both Part A and Part B have internal choices.

#### Part – A consists 20 questions

1. Questions 1-16 carry 1 mark each. Internal choice is provided in 5 questions.
2. Questions 17-20 are based on the case study. Each case study has 5 case-based sub-parts. An examinee is to attempt any 4 out of 5 sub-parts.

#### Part – B consists 16 questions

1. Question No 21 to 26 are Very short answer type questions of 2 mark each.
2. Question No 27 to 33 are Short Answer Type questions of 3 marks each
3. Question No 34 to 36 are Long Answer Type questions of 5 marks each.
4. Internal choice is provided in 2 questions of 2 marks, 2 questions of 3 marks and 1 question of 5 marks.

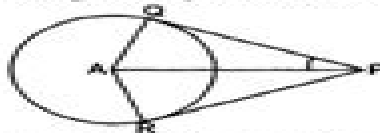
#### Part-A

1. Show that  $12^n$  cannot end with digit 0 or 5 for any natural number n. [1]

OR

Without actually performing the long division, Check whether  $\frac{64}{455}$  will have the terminating decimal expansion or non-terminating repeating decimal expansion.

2. Write the discriminant of the quadratic equation  $x^2 + 4x + q = 0$  [1]
3. Does the pair of the linear equation have no solution? Justify your answer. [1]
- $3x + y - 3 = 0$ ,  $2x + \frac{2}{3}y = 2$
4. In figure, PQ and PR are tangents to circle with centre A. If  $\angle QPA = 27^\circ$ , then find  $\angle QAR$ . [1]



5. Find the Arithmetic Mean of  $(a - b)$  and  $(a + b)$ . [1]

OR

Find the 10<sup>th</sup> term of AP: 10.0, 10.5, 11.0, 11.5, ....

6. Find the Arithmetic Mean of 13 and 19. [1]
7. If  $(x^2 + y^2)(a^2 + b^2) = (ax + by)^2$ . Prove that  $\frac{x}{a} = \frac{y}{b}$  [1]

OR

State whether the following equation is quadratic equation in x?

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