#### SUBJECT: MATHEMATICS CLASS: IX

MAX. MARKS: 80 DURATION: 3 HRS

General Instruction:

(i) All questions are compulsory.

(ii) This question paper contains 30 questions divided into four Sections A, B, C and D.

(iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.

(iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
(v) Use of Calculators is not permitted

#### SECTION - A

#### Questions 1 to 6 carry 1 mark each.

- Find the value of (81)<sup>0.16</sup> × (81)<sup>0.09</sup>.
- A rabbit covers y metres distance by walking 10 metres in slow motion and the remaining by x jumps, each jump contains 2 metres. Express this information in linear equation.

At what point the graph of the linear equation 2x - y = 7 cuts the y-axis.

3. In the given figure, find the value of x and y where O is the centre of the circle.



- Find the area of an equilateral triangle with side 2√3 cm.
- Two coins are tossed simultaneously 500 times, and we get Two heads: 105 times One head: 275 times Find the probability of getting 0 head.

OR

If the probability of winning a game is 0.4, what is the probability of losing it?

Find the height of cone, if its slant beight is 34 cm and base diameter is 32 cm.

#### SECTION - B

#### Questions 6 to 12 carry 2 marks each.

7. Using suitable identity, evaluate  $(-32)^3 + (18)^3 + (14)^3$ 

OR.

If  $f(x) = x^2 - 4x + 6$ , find f(1) - f(-1)

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