

# Sample Paper

(Based on CBSE CCE SA - 2)

## (IX) MATHEMATICS

[Time allowed: 3 hours]

[Maximum marks: 80]

### General Instructions:

- All questions are compulsory.
- The question paper consists of 34 questions divided into 4 sections, section A, B, C, and D.
- Section A contains 10 multiple choice type questions each carry 1 mark. Section B contains 8 questions of 2 marks each, section C contains 10 questions of 3 marks each and section D contains 6 questions of 4 marks each.
- There is no overall choice. However, internal choice has been provided in 1 question of two marks, 3 questions of three marks each and 2 questions of four marks each. Attempt only one of the alternatives in all such questions.

### SECTION - A

#### Question Numbers 1 to 10 carry 1 mark each.

- The equation  $3x + 5y = 7$  has a unique solution, if  $x, y$  are
  - natural numbers
  - positive real numbers
  - real numbers
  - rational numbers
- The quadrilateral formed by joining the mid-points of the sides of quadrilateral LMNO, taken in order, is a rhombus, if
  - LMNO is a rhombus
  - LMNO is a || gm
  - diagonals of LMNO are perpendicular
  - diagonals of LMNO are equal
- In the adjoining figure, the incorrect statement is
  - area ( $\triangle ADC$ ) = area ( $\triangle BDC$ )
  - area ( $\triangle ABC$ ) = area ( $\triangle ABD$ )
  - area ( $\triangle EBC$ ) = area ( $\triangle EAD$ )
  - area (quad. ABCD) = area ( $\triangle ABC$ ) + area ( $\triangle ABD$ )
- In the adjoining figure, O is the centre and A is such that  $\angle BOA = 120^\circ$ , then the value of  $x$  is
  - $120^\circ$
  - $30^\circ$
  - $90^\circ$
  - $60^\circ$
- In the adjoining figure, ABCD is a cyclic quadrilateral,  $\angle CAB$  is
  - $30^\circ$
  - $50^\circ$
  - $45^\circ$
  - $60^\circ$

