Sample Paper

(Based on CBSE CCE SA - 2)
(IX) MATHEMATICS

[Time allowed: 3 hours]   [Maximum marks: 80]

General Instructions:
1. All questions are compulsory.
2. The question paper consists of 34 questions divided into 4 sections, section A, B, C, and D.
3. 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.
4. 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.

1. The equation $3x + 5y = 7$ has a unique solution, if x, y are
   - (a) natural numbers
   - (b) positive real numbers
   - (c) real numbers
   - (d) rational numbers

2. The quadrilateral formed by joining the mid-points of the sides of quadrilateral LMNO, taken in order, is a rhombus, if
   - (a) LMNO is a rhombus
   - (b) LMNO is a ||gm
   - (c) diagonals of LMNO are perpendicular
   - (d) diagonals of LMNO are equal

3. In the adjoining figure, the incorrect statement is
   - (a) area ($\triangle$ADC) = area ($\triangle$BDC)
   - (b) area ($\triangle$ABC) = area ($\triangle$ABD)
   - (c) area ($\triangle$EBC) = area ($\triangle$EAD)
   - (d) area (quad. ABCD) = area ($\triangle$ABC) + area ($\triangle$ABD)

4. In the adjoining figure, O is the centre and A is such that $\angle$BOA = 120°, then the value of x is
   - (a) 120°
   - (b) 30°
   - (c) 90°
   - (d) 60°

5. In the adjoining figure, ABCD is a cyclic quadrilateral, $\angle$CAB is
   - (a) 30°
   - (b) 50°
   - (c) 45°
   - (d) 60°