

MATHEMATICS

SAMPLE QUESTION PAPER OF CLASS XI FOR COUNCIL OF HIGHER SECONDARY EDUCATION

Questions number 1 and 2 are Assertion (A) and Reason (R) based questions. Two statements are given, one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer from the codes (A), (B), (C) and (D) as given below.

1. Assertion(A) : If R is the set of real numbers and Q is the set of rational numbers, then $R - Q$ is the set of natural numbers
Reason(R) : The set of real numbers consists of set of rational and set of irrational numbers.

- (A) Both (A) and (R) are correct (R) is the correct explanation of (A)
- (B) Both (A) and (R) are correct (R) is not the correct explanation of (A)
- (C) (A) is correct, (R) is incorrect
- (D) (A) is incorrect, (R) is correct

2. Assertion (A) : If $(1 + 2i)[(2 + 3i) + (3 + 4i)] = 1 + 5i$
Reason (R) : $Z_1(Z_2Z_3) = (Z_1Z_2)Z_3$

- (A) Both (A) and (R) are true and Reason (R) is the correct explanation of (A)
- (B) Both (A) and (R) are true but Reason (R) is not the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true
