



## TEST-01



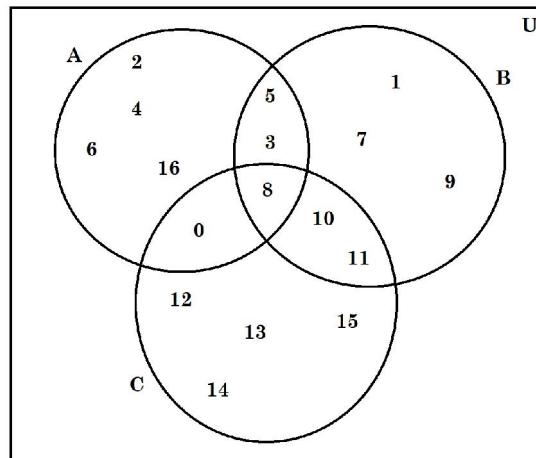
# MULTIPLE CHOICE TYPE QUESTIONS

For 2025 Exams - Mathematics (041) - Class 11

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



**Select the correct option in the followings. Each question carries 1 mark.**



In the following questions (29 & 30), a statement of **Assertion (A)** is followed by a statement of **Reason (R)**. Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true and R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

**29.** **Assertion (A)** : For  $[-\pi, 0]$ , the length of the interval is  $\pi$ .

**Reason (R)** : The number  $(b - a)$  is called the *length* of any of the intervals  $(a, b)$ ,  $[a, b]$ ,  $[a, b)$  or  $(a, b]$ .

**30.** **Assertion (A)** : A finite set X has exactly 9 subsets.

**Reason (R)** : A set with no element is called a null set.

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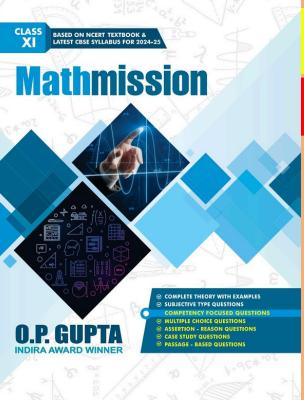
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