

UNIT TEST I (2024-2025)

CLASS XI

MATHEMATICS

SET A (AFTERNOON)

Time : 40 minutes

Full marks : 20

Group A

Answer all the following questions: ( $4 \times 1 = 4$ )

Choose the correct option from each of the following:

1. The cardinality of the power set of  $\{x: x \in \mathbb{N}, x \leq 10\}$

- a) 1024                      b) 1023                      c) 2048                      d) 2043.

2. The simplest value of  $\cos(-1170^\circ)$  is

- a) 1                              b) -1                              c) 0                              d)  $-\frac{1}{2}$

3. The simplest value of  $\tan\left(\frac{\pi}{4} + \theta\right) \tan\left(\frac{\pi}{4} - \theta\right)$  is

- a) 0                              b)  $\frac{1}{\sqrt{3}}$                               c) 1                              d)  $\sqrt{3}$

4. If  $\theta$  lies in the fourth quadrant and  $\tan \theta = \frac{-1}{3}$ , then the value of  $\cos \theta$  is

- a)  $\frac{1}{\sqrt{10}}$                       b)  $\frac{-1}{\sqrt{10}}$                       c)  $\frac{-3}{\sqrt{10}}$                       d)  $\frac{3}{\sqrt{10}}$

Group B

Answer all the following questions: ( $4 \times 2 = 8$ )

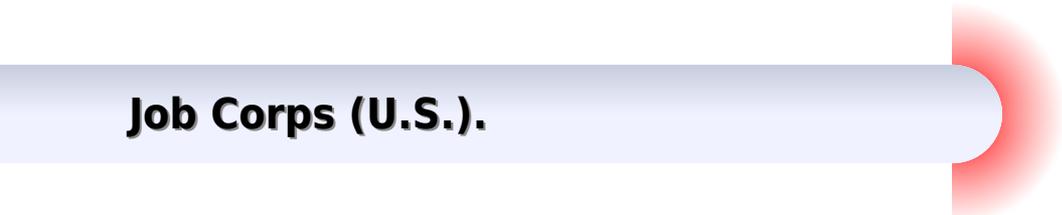
5. If  $(a, b)$  and  $(b, c)$  are two elements of  $A \times A$ , find the elements of  $A \times A$ , if the number of elements of  $A \times A$  is 9.

Ans :  $A = \{a, b, c\}$ ,

$A \times A = \{(a, a), (a, b), (a, c), (b, a), (b, b), (b, c), (c, a), (c, b), (c, c)\}$

# Mathematics Unit Test

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