#### VIJAYABHERY

## MALAPPURAM DISTRICT PANCHAYATH HIGHER SECONDARY EXAM SERIES, JAN – 2024

Max. Score : 40
Part III Time : 1.30 Hrs

Second Year

MATHEMATICS (SCIENCE)

Cool- off Time: 10 Mts

#### Answer any 4 questions from 1 to 5, each carries 3 scores

- 1. (a) A function  $f: X \to Y$  is ...... if and only if f is one-one and onto. [1]
  - (b) Show that the function  $f: \mathbb{N} \to \mathbb{N}$ , given by f(x) = 2x, is one-one but not onto. [2]

- 2. (a) Find the value of  $sin^{-1} \left( sin \frac{2\pi}{3} \right)$  [1]
  - (b) Find the principal value of  $\cos^{-1}\left(\frac{-1}{\sqrt{2}}\right)$  [2]
- 3. Construct a 3 x 2 matrix whose elements are given by  $a_{ij} = \frac{1}{2} \mid i 3j \mid$  [3]
- 4. (a) Find all points of discontinuity of the function f defined by f(x) = |1 x + |x||, where x is any real number.
  - (b) Find the values of k if the function  $f(x) = \begin{cases} kx^2, & \text{if } x \leq 2 \\ 3, & \text{if } x > 2 \end{cases}$  is continuous [2]
- 5. The radius of a circle is increasing uniformly at the rate of 3 cm/s. Find the rate at which the area of the circle is increasing when the radius is 10 cm.
  [3]

#### Answer any 4 questions from 6 to 10, each carries 4 scores

6. (a) Let R be the relation in the set N given by  $R = \{(a, b) : a = b - 2, b > 6\}$ .

Choose the correct answer.

(A) 
$$(2, 4) \in \mathbb{R}$$
 (B)  $(3, 8) \in \mathbb{R}$ 

(C) 
$$(6, 8) \in \mathbb{R}$$
 (D)  $(8, 7) \in \mathbb{R}$ 

(b) Show that the relation R in the set Z of integers given by R = {(a, b) : 2 divides a - b} is an equivalence relation.
[3]

[1]

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