General Instructions:

- This question paper contains five sections A, B, C, D and E.
- Section A has 20 questions of 1 mark each.
- Section B has 5 questions of 2 marks each.
- Section C has 6 questions of 3 marks each.
- Section D has 3 case based study questions of 4 marks each.
- Section E has 4 questions of 5 marks each.

SECTION - A.

(Multiple Choice Questions)

Each question carries 1 mark.

 $1 \times 20 = 20$

- A relation R in a set A is called ______, if (a₁, a₂) ∈ R implies (a₂, a₁) ∈ R, for all 44.40 E A.
 - (a) symmetric
- (b) transitive
- (c) equivalence.
- (d) non-symmetric.

- Let f: R → R be defined by f(x) = ½ ∀x ∈ R. Then f is (a) one-one

(b) onto

(d) f is not defined.

- The principal value of tan⁻¹(tan(³/_₹)) is

 $(d) = 3\pi$.

- 4. If $\sin^{-1} x + \sin^{-1} y = \frac{\pi}{2}$, then value of $\cos^{-1} x + \cos^{-1} y$ is (a) $\frac{\pi}{2}$
 - (d) 等。

- If A is a square matrix, then A-A^T is a
 - (a) diagonal matrix (b) skew-symmetric matrix (c) symmetric matrix (d) none of these.
- 6. The matrix $\begin{bmatrix} 0 & -5 & 7 \\ 5 & 0 & -11 \\ -7 & 11 & 0 \end{bmatrix}$ is
 - (a) a skew-symmetric matrix(b) a symmetric matrix(c) a diagonal matrix(d) an upper
- 7. If $\begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$ then the value of x is (a) 3 (b) ± 3

- (c) ± 6
- (d) 6.

8. If $x = t^2$, $y = t^3$, then $\frac{d^3y}{dx^2} = \frac{3}{(b)^{-\frac{3}{2T}}}$

- (c) & (d)要.
- 9. The point(s) at which the function f is given by $f(x) = \begin{cases} \frac{x}{|x|}, & x < 0 \\ -1, & x > 0. \end{cases}$ is continuous, is/are
 - (a) $x \in \mathbb{R}$

(b) x = 0

 $(c) x \in \mathbb{R} \setminus \{0\}$

(d) x = -1, 1.

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Ying-Ying Zheng

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