Time Allowed : 3 Hours   MATHEMATICS-10+2   Max. Marks :80

Instructions:
1. All the questions are compulsory.
2. The question paper consists of 16 questions divided into 4 sections A,B,C and D.
3. Section A comprises of 3 questions :
    (i)   Q.No.1 consists of 16 Multiple Choice Questions carrying 1 mark each.
    (ii)   Q.No.2 consists of 8 Fill in the Blank type questions carrying 1 mark each.
    (iii)   Q.No.3 consists of 8 True/False type questions carrying 1 mark each.
4. Section B comprises of 5 questions of 2 marks each.
5. Section C comprises of 5 questions of 4 marks each.
6. Section D comprises of 3 questions of 6 marks each.
7. Internal choice has been provided in three questions of 2 marks, three questions of 4 marks and three
    questions of 6 marks. You have to attempt only one of the alternatives in all such questions.
8. Use of calculator is not permitted.

Section – A

Q1   Choose the correct options in the following questions :

(i)   Function $f: R \to R$, $f(x) = 3x - 5$ is :   1
      (a)one–one only   (b)onto only   (c)one–one and onto   (d)none of these

(ii) Relation given by $R = \{(1,1),(2,2),(1,2),(2,1)\}$ is   1
      (a)reflexive only   (b)symmetric only   (c)transitive only   (d) equivalence relation

(iii) $\cos^{-1}\left(\cos \frac{5\pi}{3}\right)$ is equal to :   1
      (a)$\frac{\pi}{5}$ (b) $\frac{2\pi}{3}$ (c) $\frac{\pi}{2}$ (d) $\frac{\pi}{3}$

(iv) If $\begin{bmatrix} 1 & -x \\ 4 & -3 \end{bmatrix} = \begin{bmatrix} 1 & 8 \\ 4 & -3 \end{bmatrix}$ then value of x is: 1
      (a)8   (b)−4   (c)3   (d)−8

(v)   If order of matrix A is 2×3 and order of matrix B is 3×5 then order of matrix BA is :   1
      (a)5×2 (b) 2×5 (c) 5×3 (d) 3×2

(vi) If $f(x) = \begin{cases} kx + 1, & x \le 5 \\ 3x - 5, & x > 5 \end{cases}$ is continuous then value of k is :   1
      (a)$\frac{9}{5}$ (b) $\frac{5}{9}$ (c) $\frac{5}{3}$ (d) $\frac{3}{5}$

(vii) $\frac{d}{dx}\{\tan^{-1}(e^x)\}$ is equal to :   1
      (a)$e^x \tan^{-1} e^x$ (b) $\frac{e^x}{1+e^{2x}}$ (c) 0   (d)$e^x \sec^{-1} x$

(viii) Critical point of the function $f(x) = x^2 - 10x + 2$ is :   1
      (a)$x = 4$ (b)$x = 6$ (c)$x = 5$ (d)$x = 2$

(ix) $\int 3x^2 dx$ is equal to :   1
      (a)$x + c$ (b)$x^2 + c$ (c)$x^3 + c$ (d)$x^4 + c$

(x) $\int_0^{\pi/2} \frac{\sin^{3/2} x}{\sin^{3/2} x + \cos^{3/2} x} dx$ is equal to :   1
      (a)0   (b) $\frac{\pi}{2}$ (c) $\frac{\pi}{3}$ (d) $\frac{\pi}{4}$

(xi) Degree of differential equation $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} + 3y = 0$ is: 1
      (a)3   (b) 2   (c)1   (d)0

(xii) If $\vec{a}.\vec{b} = |\vec{a} \times \vec{b}|$ then angle between vector $\vec{a}$ and vector $\vec{b}$ is :   1
      (a)$\frac{\pi}{2}$ (b)$\frac{\pi}{6}$ (c)$\frac{\pi}{4}$ (d)$\frac{\pi}{3}$

(xiii) If $\vec{a}.\vec{b} = 0$ then angle between vectors $\vec{a}$ and $\vec{b}$ is :   1
      (a)$\frac{\pi}{2}$ (b)$\frac{\pi}{6}$ (c)$\frac{\pi}{4}$ (d)$\frac{\pi}{3}$

(xiv) Direction ratios of line given by $\frac{x-1}{3} = \frac{2y+6}{12} = \frac{1-x}{-7}$ are :   1
      (a) $< 3,12,-7 >$ (b) $< 3,-6,7 >$ (c) $< 3,6,7 >$ (d)$< 3,6,-7 >$

(xv) Common area for each constraint is called :   1
      (a)infeasible region   (b)feasible region   (c)useless region   (d)main region

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Xiaolong Qi

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