(CODE–A)

Q.1-Q.15: Only one option is correct for each question. Each question carries (+6) marks for correct answer and (–2) marks for incorrect answer.

1. Let $\{x_n\}$ be the sequence $+\sqrt{1}, -\sqrt{1}, +\sqrt{2}, -\sqrt{2}, +\sqrt{3}, -\sqrt{3}, +\sqrt{4}, -\sqrt{4}, \ldots$ If

$$y_n = \frac{x_1 + x_2 + \ldots + x_n}{n} \text{ for all } n \in \mathbb{N},$$

then the sequence $\{y_n\}$ is

(a) monotonic
(b) NOT bounded
(c) bounded but NOT convergent
(d) convergent

2. The number of distinct real roots of the equation $x^9 + x^7 + x^5 + x^3 + x + 1 = 0$ is

(a) 1   (b) 3   (c) 5   (d) 9

3. If $f : \mathbb{R}^2 \to \mathbb{R}$ is defined by

$$f(x, y) = \begin{cases} \dfrac{x^3}{x^2 + y^2} & \text{if } (x, y) \neq (0, 0), \\ 0 & \text{if } (x, y) = (0, 0), \end{cases}$$

Then

(a) $f_x(0, 0) = 0$ and $f_y(0, 0) = 0$
(b) $f_x(0, 0) = 1$ and $f_y(0, 0) = 0$
(c) $f_x(0, 0) = 0$ and $f_y(0, 0) = 1$
(d) $f_x(0, 0) = 1$ and $f_y(0, 0) = 1$

4. The value of $\displaystyle\int_{z=0}^{1}\int_{y=0}^{2}\int_{x=0}^{3} xy^2z^3\,dx\,dy\,dz$ is

(a) $\dfrac{1}{90}$ (b) $\dfrac{1}{50}$ (c) $\dfrac{1}{45}$ (d) $\dfrac{1}{10}$

5. The differential equation $(1 + x^2 y^3 + \alpha x^2 y^2)dx + (2 + x^3 y^2 + x^3 y)dy = 0$ is exact if α equals

(a) $\dfrac{1}{2}$ (b) $\dfrac{3}{2}$ (c) 2   (d) 3

6. An integrating factor for the differential equation $(2xy + 3x^2 y + 6y^3)dx + (x^2 + 6y^2)dy = 0$ is

(a) x^2 (b) y^2 (c) e^{3x} (d) e^{3y}

7. For $c > 0$, if $a\hat{i} + b\hat{j} + c\hat{k}$ is the unit normal vector at $(1, 1, \sqrt{2})$ to the cone $z = \sqrt{x^2 + y^2}$, then

(a) $a^2 + b^2 - c^2 = 0$
(b) $a^2 - b^2 + c^2 = 0$
(c) $-a^2 + b^2 + c^2 = 0$
(d) $a^2 + b^2 + c^2 = 0$

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