Fundamentals of Engineering Exam Sample Math Questions

Directions: Select the best answer.

1. The partial derivative $\frac{\partial y}{\partial x}$ of $y = x^2z + 3z^2x + 6(x + z)$ is:
   a. $2xz + 3z^2 + 6$
   b. $x^2z + 6zx + 6z$
   c. $2x + 9$
   d. $2x + 6z + 6$

2. If the functional form of a curve is known, differentiation can be used to determine all of the following EXCEPT the
   a. concavity of the curve.
   b. location of the inflection points on the curve.
   c. number of inflection points on the curve.
   d. area under the curve between certain bounds.

3. Which of the following choices is the general solution to this differential equation:
   $\frac{dy}{dt} + 5y = 0; \quad y(0) = 1$?
   a. e^{5t} b. e^{-5t} c. $e^{\sqrt{-5t}}$ d. $5e^{-5t}$

4. If D is the differential operator, then the general solution to $(D+2)^2 y = 0$
   a. C_1e^{-4x}
   b. C_1e^{-2x}
   c. $e^{-4x}(C_1 + C_2x)$
   d. $e^{-2x}(C_1 + C_2x)$

5. A particle traveled in a straight line in such a way that its distance S from a given point on that line after time t was $S = 20t^3 - t^4$. The rate of change of acceleration at time t=2 is:
   a. 72 b. 144 c. 192 d. 208

6. Which of the following is a unit vector perpendicular to the plane determined by the vectors $\mathbf{A}$=2$\mathbf{i}$ + 4$\mathbf{j}$ and $\mathbf{B}$=$\mathbf{i}$ + $\mathbf{j}$ - $\mathbf{k}$?
   a. -2$\mathbf{i}$ + $\mathbf{j}$ - $\mathbf{k}$
   b. $\frac{1}{\sqrt{5}}(\mathbf{i} + 2\mathbf{j})$
   c. $\frac{1}{\sqrt{6}}(-2\mathbf{i} + \mathbf{j} - \mathbf{k})$
   d. $\frac{1}{\sqrt{6}}(-2\mathbf{i} - \mathbf{j} - \mathbf{k})$

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