

First Semester B.E. Degree Examination, January 2013
Engineering Mathematics - I

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing at least two from each part.
 2. Answer all objective type questions only in OMR sheet page 5 of the answer booklet.
 3. Answer to objective type questions on sheets other than OMR will not be valued.

PART - A

1. a. Choose the correct answers for the following :
 i) The Leibnitz theorem is the formula to find the n^{th} derivative of
 A) trigonometric function B) exponential function C) product of two algebraic functions D) product of two functions
 ii) The n^{th} derivative of S^x is : A) $\log S, S^x$ B) $(\log S)^x S^x$ C) $S^{\frac{x}{n}}$ D) $(\log S)^x e^{\frac{x}{n}}$
 iii) The value of 'c' of the Cauchy mean value theorem for $f(x) = e^x, g(x) = e^x$ in (3, 7) is : A) 5 B) 3 C) 0 D) 4
 iv) The generalized series of MacLaurin's series expansion is
 A) Taylor series B) Exponential series C) Logarithmic series D) Trigonometric series (0.6 Marks)

b. Verify Rolle's theorem for the function $f(x) = x^2(1-x)^2$ in $0 \leq x \leq 1$ and also find the value of 'c'. (0.6 Marks)

c. If $\sin^{-1} y = 2 \log(y+1)$, prove that $(n+1)^2 y_{n+1} + (2n+1)(n+1)y_{n+1} + (n^2+4)y_n = 0$. (0.6 Marks)

d. Expand by using MacLaurin's series, the function $\log(1+\sin x)$ upto fifth degree terms. (0.6 Marks)

2. a. Choose the correct answers for the following :
 i) The curve $\frac{1}{r} = \frac{a}{1-\cos \theta}$ intersect orthogonally with the following curve : A) $r = \frac{b}{1-\cos \theta}$ B) $r = \frac{a}{1-\sin \theta}$ C) $r = \frac{b}{1-\sin \theta}$ D) $r = \frac{a}{\cos \theta}$
 ii) If ϕ be the angle between the tangent and radius vector at any point on the curve $r = R\theta$, then $\sin \phi$ equals to
 A) $r \frac{dr}{d\theta}$ B) $r \frac{d\theta}{dr}$ C) $r \frac{d\theta}{dr}$ D) $r \frac{dr}{d\theta}$
 iii) L'Hospital's Rule can be applied to the limits of the form : A) 0/0 B) 0 as C) as - as D) as⁰ (0.6 Marks)
 iv) $\lim_{x \rightarrow 0} (a^{1/x} - 1)x$ is of the following form : A) 0 as B) as - as C) 0 as D) as⁰ (0.6 Marks)

b. Evaluate $\lim_{x \rightarrow 0} (\tan x)^{\tan x}$. (0.6 Marks)

c. Find the radius of curvature for the curve $x^2y = a(x^2 + y^2)$ at the point (-2a, 2a). (0.6 Marks)

d. Find the Pedal equation for the curve $r(1 - \cos \theta) = 2a$. (0.6 Marks)

3. a. Choose the correct answers for the following :
 i) If $f(x, y) = \frac{1}{x^2} + \frac{1}{y^2} + \frac{1}{x^2+y^2}$, then $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y}$ is : A) 0 B) 0 C) 0 D) -3E
 ii) If $x = p \cos \theta, y = p \sin \theta, z = x$ then $\frac{\partial(x, y, z)}{\partial(p, \theta, x)}$: A) ϕ B) 1 C) 0 D) 0
 iii) If an error of 1% is made in measuring its base and height, the percentage error in the area of a triangle is
 A) 0.2% B) 0.02% C) 1% D) 2%
 iv) One of the necessary and sufficient condition for a function to have a maximum value is
 A) $A/C - B^2 > 0, A < 0$ B) $A/C - B^2 = 0, A = 0$ C) $A/C - B^2 < 0, A > 0$ D) $A/C - B^2 > 0, A > 0$ (0.6 Marks)

b. If $\mathbf{V} = e^x \cos(x \log r) \mathbf{i}$, prove that $\frac{\partial^2 \mathbf{V}}{\partial r^2} + \frac{1}{r} \frac{\partial \mathbf{V}}{\partial r} + \frac{1}{r^2} \frac{\partial^2 \mathbf{V}}{\partial \theta^2} = 0$. (0.6 Marks)

c. Examine the function $f(x, y) = 1 + \sin(x^2 + y^2)$ for extremum values. (0.6 Marks)

d. In calculating the volume of right circular cone, errors of 2% and 1% are made in height and radius of the base respectively. Find the percentage error in the volume. (0.6 Marks)

4. a. Choose the correct answers for the following :
 i) If $\vec{F} = \nabla \phi$, then the curl \vec{F} : A) solenoidal B) irrotational C) rotational D) none of these
 ii) If $\mathbf{V} = x^2 + y^2 + z$ then grad \mathbf{V} is : A) $2xi + 2yj$ B) $2x + 2y$ C) $2xi + 2yj + k$ D) $xi + yj$
 iii) The value of 'a' of the vector $\vec{F} = (x + 2y)\mathbf{i} + (x - 2z)\mathbf{j} + (x + az)\mathbf{k}$, which is solenoidal : A) -2 B) -1 C) 0 D) 2
 iv) If $R = x^2y + y^2z + z^2x$, then Laplacian of R is : A) $x + y + z$ B) $x - y - z$ C) $2(x + y + z)$ D) $2(x - y - z)$ (0.6 Marks)

b. Find div \vec{F} and curl \vec{F} , where $\vec{F} = \mathbf{V}(x^2 + y^2 + z^2 - 3xyz)$. (0.6 Marks)

c. Prove that $\text{curl}(\phi \vec{G}) = \phi \text{curl} \vec{G} + \text{grad} \phi \times \vec{G}$. (0.6 Marks)

d. Show that the cylindrical system is orthogonal. (0.6 Marks)

5. a. Choose the correct answers for the following :
 i) The value of $\int_{0.1}^{100} x \sin x dx$ is : A) 1.099 B) 1/100 C) $\pi/100$ D) 99/100

**PART - B**

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