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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 nth derivative of
     A) trigonometric function   B) exponential function   C) product of two algebraic functions   D) product of two functions
    ii)   The nth derivative of 5^x is :   A) $\log 5, 5^x$ B) $(\log 5)^x 5^x$ C) $e^{(\log 5)x}$ D) $(\log 5)^2 e^{(\log 5)x}$
    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   (04 Marks)
  b.   Verify Rolle's theorem for the function $f(x) = x^2(1-x)^3$ in $0 \le x \le 1$ and also find the value of c.   (04 Marks)
  c.   If $\sin^{-1} y = 2\log(x+1)$, prove that $(x+1)^2 y_{n+2} + (2n+1)(x+1)y_{n+1} + (n^2+4)y_n = 0$.   (06 Marks)
  d.   Expand by using Maclaurin's series, the function $\log(1 + \sin x)$ upto fifth degree terms.   (06 Marks)

2   a.   Choose the correct answers for the following :
    i)   The curve $r = \frac{a}{1-\cos\theta}$ intersect orthogonally with the following curve : A) $r = \frac{b}{1-\cos\theta}$ B) $r = \frac{a}{1+\cos\theta}$ 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 $r = f(\theta)$, then $\sin\phi$ equals to
     A) $\frac{dr}{ds}$ B) $r\frac{d\theta}{ds}$ 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) $0 \times \infty$ C) $\infty - \infty$ D) ∞^0
    iv) $\underset{x \to \infty}{Lt}(a^{1/x} - 1)x$ is of the following form   A) $0 \times \infty$ B) $\infty - \infty$ C) ∞^0 D) 0^0 (04 Marks)
  b.   Evaluate $\lim_{x \to \pi/2}(\tan x)^{\cos x}$.   (04 Marks)
  c.   Find the radius of curvature for the curve $x^2 y = a(x^2 + y^2)$ at the point (-2a, 2a).   (06 Marks)
  d.   Find the Pedal equation for the curve $r(1 - \cos\theta) = 2a$.   (06 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) 9   C)   D) $-3f$
    ii)   If $x = \rho\cos\theta$, $y = \rho\sin\theta$, $z = z$ then $\frac{\partial(x,y,z)}{\partial(\rho,\theta,z)}$:   A) ρ 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) $AC - B^2 > 0$, $A < 0$ B) $AC - B^2 = 0$, $A = 0$ C) $AC - B^2 < 0$, $A > 0$ D) $AC - B^2 > 0$, $A > 0$ (04 Marks)
  b.   If $V = e^m \cos(a\log r)$, prove that $\frac{\partial^2 v}{\partial r^2} + \frac{1}{r}\frac{\partial v}{\partial r} + \frac{1}{r^2}\frac{\partial^2 v}{\partial\theta^2} = 0$.   (06 Marks)
  c.   Examine the function $f(x,y) = 1 + \sin(x^2 + y^2)$ for extremum values.   (05 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.   (05 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 $V = x^2 + y^2 + 3$ then grad V is :   A) $2x\hat{i} + 2y\hat{j}$ B) $2x + 2y$ C) $2x\hat{i} + 2y\hat{j} + \hat{k}$ D) $x\hat{i} + y\hat{j}$
    iii)   The value of 'a' of the vector $\vec{F} = (x + 3y)\hat{i} + (x - 2z)\hat{j} + (x + az)\hat{k}$, which is solenoidal : A) 1   B) -1   C) 0   D) 3
    iv)   If $R = x^2 y + y^2 z + z^2 x$, then Laplacian of R is :   A) $x + y + z$ B) $x - y - z$ C) $2(x + y + z)$ D) $2(x - y + z)$ (04 Marks)
  b.   Find div $\vec{F}$ and curl $\vec{F}$, where $\vec{F} = \nabla(x^3 + y^3 + z^3 - 3xyz)$.   (06 Marks)
  c.   Prove that $curl(\phi\vec{u}) = \phi \, curl \, \vec{u} + grad\,\phi \times \vec{u}$.   (06 Marks)
  d.   Show that the cylindrical system is orthogonal.   (04 Marks)

PART – B

5   a.   Choose the correct answers for the following :
    i)   The value of $\int_0^{\pi/2}\cos^{99} x \sin^{101} x \, dx$ is   A) 1/99   B) 1/100   C) $\pi/100$ D) 99:100

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