

First Semester B.E. Degree Examination; June/July 2011
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 on 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. i) If $y = (ax + b)^{-1}$, then y^n is (04 Marks)
 A) $\frac{(-1)^{n-1}(n-1)!a^n}{(ax+b)^n}$ B) $\frac{(-1)^n n! a^n}{(ax+b)^{n+1}}$ C) $\frac{n! a^n}{(ax+b)^{n+1}}$ D) Zero
 ii) The Taylor's theorem relates the value of the function and its
 A) 1st order derivative B) 11th order derivatives
 C) Constant D) Higher order derivatives
 iii) Cauchy's mean value theorem reduces to Lagrange's mean value theorem, if
 A) $f(x) = g(x)$ B) $f(c) = g'(c)$ C) $g(x) = x$ D) $f(x) = 0$
 iv) To find the n^{th} derivative of a function $y = f(x)$, its $(n-1)$ derivatives must be a
 A) function of y B) function of x
 C) constant D) function of x & y
- b. If $\cos^{-1}\left(\frac{y}{b}\right) = \log\left(\frac{x}{n}\right)$ Prove that $x^2 y_{n+2} + (2n+1)xy_{n+1} + 2n^2 y_n = 0$ (06 Marks)
- c. Verify Lagrange's mean value theorem for the function $f(x) = \log x$ in the interval $[1, 2]$ and find the value of 'C'. (04 Marks)
- d. Expand $\tan x$ in powers of $(x - \pi/4)$ upto third degree term. (06 Marks)
2. a. i) L. Hospital's rule implies that each differentiation reduces the order of the infinitesimals by
 A) unity B) two C) zero D) four
 ii) If two curve cuts orthogonally, then angle between their tangents is equal to
 A) zero B) $\pi/4$ C) $3\pi/4$ D) $\pi/2$
 iii) Perpendicular distance from the pole on the tangent is equal to
 A) $\sin \phi$ B) $\cos \phi$ C) $r \sin \phi$ D) $r \cos \phi$
 iv) The value of radius of curve remains unchanged under the change of
 A) ordinates B) signs C) derivatives D) none of these (04 Marks)
- b. Evaluate $\lim_{x \rightarrow 0} \left(\frac{1}{x} - \cot x \right)$. (04 Marks)
- c. Prove that the radius of curvature ρ at any point (x, y) on the curve $\sqrt{\frac{x}{a}} + \sqrt{\frac{y}{b}} = 1$ is given by

$$\rho = \frac{2(ax + by)^{3/2}}{ab}$$
 (06 Marks)
- d. Find the pedal equation of the curve $\frac{2a}{r} = (1 + \cos \theta)$. (06 Marks)

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