#### First Semester B.E. Degree Examination, January 2013

Engineering Mathematics - I Market Market 100 Timese: 3 hers... Note: 1. Answer any FIVE full questions, choosing at least two from each part. Answer all objective type questions only in OMR sheet page 5 of the answer booklet. 3. Anxwer to objective type questions on skeets other than OMR will not be valued. PART - AChoose the correct services for the following: The Leibnitz theorem is the formula to find the n<sup>th</sup> derivative of A) trigonometric function B) exponential function C) product of two algebraic functions D)product of two functions B) clog 5)\* 5° C) ethytin Dis thou 55° e the time ii) The n" derivative of 5" is: A) log 5, 5" The value of 'c' of the Cauchy must value theorem for f(x) = e', g(x) = e'' in (3, 7) is: A) 5 D9.4 C 140 iv) The generalized series of Maclaurin's series expansion is D) Trigonometric series (the Minchel) (C) Logarithmic series B) Exponential series. A3 Taylor series Verify Rollie's theorem for the function  $f'(x) = x^2(1-x)^2$  in  $0 \le x \le 1$  and also find the value of c. **1984 Minerked** If  $\sin^{-1} y = 2 \log(x + 1)$ , prove that  $(x + 1)^2 y_{x-1} + (2n + 1)(x + 1)y_{x-1} + (n^2 + 4)y_x = 0$ . plot Minerholi Expand by using Maclaurin's series, the function log(1 + sin x) upto fifth degree terms otto Markett Choose the correct answers for the following I The curve  $\frac{a}{1-\cos\theta}$  intersect orthogonally with the following curve : A)  $\frac{b}{1-\cos\theta}$  B3  $\frac{a}{1-\cos\theta}$  C)  $\frac{b}{1-\cos\theta}$  D0  $\frac{d}{1-\cos\theta}$ If 6 be the angle between the tangent and radius vector at any point on the curve r = 80), then sin 6 equals to iii) L Hospital's Rule can be applied to the limits of the form: A) 0/0 (C) be  $\rightarrow$  se DOM: NO STE OF iv) Lt (a -1)x is of the following form 1 A10 × ∞ B1 ∞ − ∞ otto Minerana 1994 Milarikasi Evaluate Firm (tam x )\*\*\*\* Find the radius of curvature for the curve  $x^2y = a(x^2 + y^2)$  at the point (-2a, 2a). CENTRAL (866 Millerket) LIBRARY 1900 Million Rolls Find the Pedal equation for the curve of 1 - cos 0 i = 2a. Choose the correct answers for the following: If  $f(x,y) = \frac{1}{x^2} + \frac{1}{x^2} + \frac{1}{x^2 + x^2}$ , then  $\sqrt{\frac{\partial f}{\partial x}} + y \frac{\partial f}{\partial x}$  is : 139 - 36151/9 iii) If  $x = \rho \cos \theta$ ,  $y = \rho \sin \theta$ , x = x then C(x, y, z)DOM: N DO: 01 iii) If an error of 1% is made in measuring its base and height, the percentage error in the area of a triangle is A1 0.2% B) 0.02% is i. One of the necessary and sufficient condition for a function to have a maximum value is D)  $AC - B^2 > 0$ , A > 0B)  $AC - B^2 = 0$ , A = 0 C)  $AC - B^2 < 0$ , A > 0othii Mhaekab A + AC - B' > 0, A < 0b. If  $V = e^{st} \cos(a \log r)$ , prove that  $\frac{\partial^2 v}{\partial r^2} + \frac{1}{r} \frac{\partial v}{\partial r} + \frac{1}{r^2} \frac{\partial^2 v}{\partial \theta^2} = 0$ . pins. Miserisch Examine the function  $f(x, y) = 1 + \sin(x^2 + y^2)$  for extremum values. 1985 NEartholic In calculating the volume of right circular cone, errors of 2% and 1% are made in beight and radius of the base respectively. Find the office Milanthian percentage error in the volume. 4 a. Choose the correct answers for the following: is If F = Vo , then the curl F : A) solemoidal Disname of these By irrestational Ch rotational C) 2si - 2sj - k. fig. If  $V = x^2 + y^2 + 3$  then grad V is :  $A3 \cdot 284 + 284$ 110 2x + 2y D) xi = yi (iii) The value of 'a' of the vector  $\hat{F} = (x + 3y)i + (x - 2z)j + (x + az)k$ , which is solenoidal : A) -2 B)-1 C)0 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)10) 20x - y + x5 plot Minchell Find div F and out F, where F = V(x' + y' + z' - Jxyz). pion. Milater Social Prove that  $\operatorname{curl}(\phi \, \tilde{\mathbf{u}}) = \phi \operatorname{curl} \tilde{\mathbf{u}} + \operatorname{grad} \phi \times \tilde{\mathbf{u}}$ . 1986 Nilmerheiti Show that the cylindrical system is orthogonal. 1994 Miller Sont

#### PART-B

Choose the correct answers for the following:

i) The value of foos a sin" a da is

A3: 1799

BN 1/100

C) w/100

Dis 99/100

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