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 nth 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" (ii) The value of 'c' of the Cauchy mean value theorem for f(x) = e', g(x) = e'' in (3, 7) is: A) 5 B) 3 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^{1/3} -1)x is of the following form 1 A10 × ∞ B1 ∞ − ∞ otto Minerana 1984 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 Management 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) #/100

Dis 99/100

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Minjie Lin

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