

**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  $n^{\text{th}}$  derivative of  
 A) trigonometric function B) exponential function C) product of two algebraic functions D) product of two functions  
 ii) The  $n^{\text{th}}$  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  $\phi$  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'Hopital's Rule can be applied to the limits of the form : A) 0/0 B) 0 as C) as - as D) as<sup>0</sup> (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) as<sup>0</sup> (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)  $\phi$  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  $\mathbf{V} = e^x \cos(x \log r) \hat{r}$ , 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)  $2x\hat{i} + 2y\hat{j}$  B)  $2x\hat{i} + 2y\hat{j}$  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) -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  $\operatorname{div} \vec{F}$  and  $\operatorname{curl} \vec{F}$ , where  $\vec{F} = \mathbf{V}(x^2 + y^2 + z^2 - 3xyz)$ . (0.6 Marks)
- c. Prove that  $\operatorname{curl}(\phi \vec{G}) = \phi \operatorname{curl} \vec{G} + \operatorname{grad} \phi \times \vec{G}$ . (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  $\int_{0 \leq x \leq 1} \sin x \sin^2 x dx$  is : A) 1/99 B) 1/100 C) -1/100 D) 99/100

**PART - B**

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