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B.L.D.E. ASSOCIATION'S  
VACHANA PITAMAHA  
DR.P.G.HALAKATTI  
COLLEGE OF ENGINEERING  
LIBRARY, BIJAPUR.

10MAT41

**Fourth Semester B.E. Degree Examination, Dec.2014/Jan.2015**  
**Engineering Mathematics – IV**

Time: 3 hrs.

Max. Marks:100.

**Note: 1. Answer any FIVE full questions, selecting atleast TWO questions from each part.**  
**2. Use of statistical table is permitted.**

**PART – A**

- 1 a. Employ Taylor's series method to find an approximate solution to find  $y$  at  $x = 0.1$  given  $\frac{dy}{dx} = x - y^2$ ,  $y(0) = 1$  by considering upto fourth degree term. (06 Marks)
- b. Solve the following by Euler's modified method  $\frac{dy}{dx} = \log(x + y)$ ,  $y(0) = 2$  to find  $y(0.4)$  by taking  $h = 0.2$ . (07 Marks)
- c. Given  $\frac{dy}{dx} = x^2(Hy)$  and  $y(1) = 1$ ,  $y(1.1) = 1.233$ ,  $y(1.2) = 1.548$ ,  $y(1.3) = 1.979$ . Evaluate  $y(1.4)$  by Adams-Bashforth method. Apply corrector formula twice. (07 Marks)
- 2 a. Solve  $\frac{dy}{dx} = 1 + xz$  and  $\frac{dz}{dx} = -xy$  for  $x = 0.3$  by applying Runge Kutta method given  $y(0) = 0$  and  $z(0) = 1$ . Take  $h = 0.3$ . (06 Marks)
- b. Use Picard's method to obtain the second approximation to the solution of  $\frac{d^2y}{dx^2} - x^3 \frac{dy}{dx} - x^3y = 0$  given  $y(0) = 1$ ,  $y'(0) = 0.5$ . Also find  $y(0.1)$ . (07 Marks)
- c. Apply Milne's method to compute  $y(0.4)$  given  $y'' + xy' + y = 0$ ,  $y(0) = 1$ ,  $y'(0) = 0$ ,  $y(0.1) = 0.995$ ,  $y'(0.1) = -0.0995$ ,  $y(0.2) = 0.9802$ ,  $y'(0.2) = -0.196$ ,  $y(0.3) = 0.956$  and  $y'(0.3) = -0.2863$ . (07 Marks)
- 3 a. Derive Cauchy-Riemann equation in Cartesian form. (06 Marks)
- b. Find an analytic function  $f(z)$  whose real part is  $\frac{\sin 2x}{\cosh 2y - \cos 2x}$  and hence find its imaginary part. (07 Marks)
- c. If  $f(z)$  is a holomorphic function of  $z$ , then show that  $\left\{ \frac{\partial}{\partial x} |f(z)| \right\}^2 + \left\{ \frac{\partial}{\partial y} |f(z)| \right\}^2 = |f'(z)|^2$ . (07 Marks)
- 4 a. Discuss the transformation  $w = z + \frac{1}{z}$ . (06 Marks)
- b. Find the BLT which maps the points  $z = 1, i, -1$  to  $w = i, 0, -i$ . Find image of  $|z| < 1$ . (07 Marks)
- c. Evaluate  $\int_C \left\{ \frac{\sin \pi z^2 + \cos \pi z^2}{(z-1)^2(z-2)} \right\} dz$  where 'C' is circle  $|z| = 3$ . (07 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.



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