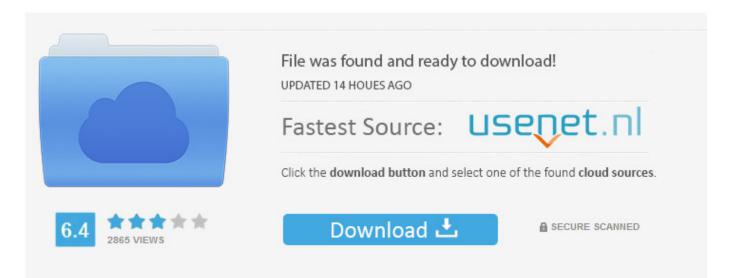


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USN	x [B.L.D.E. ASSOCIATION'S VACHANA PITAMAHA DR.P.G.HALAKATTI COLLEGE OF ENGINEERING LIERARY, BIJAPUR.	10MAT4
		Fourth Semester B.E. Degree Examination, Dec.2014/Jan	.2015
		Engineering Mathematics – IV	
ATi	ne: :		. Marks:100
<i>Q</i> ,	31	Note: 1. Answer any FIVE full questions, selecting atleast TWO questions from each part. 2. Use of statistical table is permitted.	3.05
. 1	a.	PART - A Employ Taylor's series method to find an approximate solution to find y at	t = 0.1 give
		$\frac{dy}{dx} = x - y^2$, 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	o find y(0.4) by
		taking h = 0.2. Given $\frac{dy}{dx} = x^2(Hy)$ and $y(1) = 1$, $y(1.1) = 1.233$, $y(1.2) = 1.548$, $y(1.3) = 1$	(07 Marks
		dx y(1.4) by Adams-Bash forth 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 give
	b.	y(0) = 0 and $z(0) = 1$. Take $h = 0.3$. Use Picard's method to obtain the second approximation to the solution of	(06 Marks
		$\frac{d^2y}{dx^2} - x^3 \frac{dy}{dx} - x^3y = 0 \text{ given } y(0) = 1, y'(0) = 0.5. \text{ Also find } y(0.1).$	(07 Marks
2	c.	Apply Milne's method to compute $y(0.4)$ given $y'' + xy' + y = 0$, $y(0) = y(0.1) = 0.995$, $y'(0.1) = -0.0995$, $y(0.2) = 0.9802$, $y'(0.2) = -0.196$, $y(0.3) = y'(0.3) = -0.2863$.	
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 it
3	. c.	If $f(z)$ is a holomorphic function of z, then show that $\left\{\frac{\partial}{\partial x} f(z) \right\}^2 + \left\{\frac{\partial}{\partial y} f(z) \right\}$	$(07 \text{ Marks})^2 = \mathbf{f}'(\mathbf{z}) ^2.$
36.	3		(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

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