

Fourth Semester B.E. Degree Examination, June/July 2014

Engineering Mathematics – IV

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

PART – A

1.
 - a. Obtain a solution upto the third approximation of y for $x = 0.2$ by Picard's method, given that $\frac{dy}{dx} + y = e^x$; $y(0) = 1$. (06 Marks)
 - b. Apply Runge-Kutta method of order 4, to find an approximate value of y for $x = 0.2$ in steps of 0.1, if $\frac{dy}{dx} = x + y^2$ given that $y = 1$ when $x = 0$. (07 Marks)
 - c. Using Adams-Bashforth formulae, determine $y(0.4)$ given the differential equation $\frac{dy}{dx} = \frac{1}{2}xy$ and the data, $y(0) = 1$, $y(0.1) = 1.0025$, $y(0.2) = 1.0101$, $y(0.3) = 1.0228$. Apply the corrector formula twice. (07 Marks)
2.
 - a. Apply Picard's method to find the second approximation to the values of ' y ' and ' z ' given that $\frac{dy}{dx} = z$, $\frac{dz}{dx} = x^3(y + z)$, given $y = 1$, $z = \frac{1}{2}$ when $x = 0$. (06 Marks)
 - b. Using Runge-Kutta method, solve $\frac{d^2y}{dx^2} - x\left(\frac{dy}{dx}\right)^2 + y^2 = 0$ for $x = 0.2$ correct to four decimal places. Initial conditions are $x = 0$, $y = 1$, $y' = 0$. (07 Marks)
 - c. Obtain the solution of the equation $\frac{2d^2y}{dx^2} = 4x + \frac{dy}{dx}$ at the point $x = 1.4$ by applying Milne's method given that $y(1) = 2$, $y(1.1) = 2.2156$, $y(1.2) = 2.4649$, $y(1.3) = 2.7514$, $y'(1) = 2$, $y'(1.1) = 2.3178$, $y'(1.2) = 2.6725$ and $y'(1.3) = 3.0657$. (07 Marks)
3.
 - a. Define an analytic function in a region R and show that $f(z)$ is constant, if $f(z)$ is an analytic function with constant modulus. (06 Marks)
 - b. Prove that $u = x^2 - y^2$ and $v = \frac{y}{x^2 + y^2}$ are harmonic functions of (x, y) but are not harmonic conjugate. (07 Marks)
 - c. Determine the analytic function $f(z) = u + iv$, if $u - v = \frac{\cos x + \sin x - e^{-y}}{2(\cos x - \cosh y)}$ and $f(\pi/2) = 0$. (07 Marks)
4.
 - a. Find the images of the circles $|z| = 1$ and $|z| = 2$ under the conformal transformation $w = z + \frac{1}{z}$ and sketch the region. (06 Marks)
 - b. Find the bilinear transformation that transforms the points $0, i, \infty$ onto the points $1, -i, -1$ respectively. (07 Marks)
 - c. State and prove Cauchy's integral formula and hence generalized Cauchy's integral formula. (07 Marks)

Mechanical Technology Question Paper 2014

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