

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

Disha Experts



Mechanical Technology Question Paper 2014:

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Machinery, Electronics and Control Simulation Li Wang,2014-09-26 Selected peer reviewed papers from the International Conference on Machinery Electronics and Control Simulation ICMECS 2014 September 27 28 2014 Weihai Shandong Province China **Engineering Asset Management 2011** Jay Lee,Jun Ni,Jagnathan Sarangapani,Joseph Mathew,2013-07-30 This text represents state of the art trends and developments in the emerging field of engineering asset management as presented at the Sixth World Congress on Engineering Asset Management WCEAM held in Cincinnati OH USA from October 3 5 2011 The Proceedings of the WCEAM 2011 is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering topics such as Asset condition monitoring and intelligent maintenance Asset data warehousing data mining and fusion Asset performance and level of service models Design and lifecycle integrity of physical assets Deterioration and preservation models for assets Education and training in asset management Engineering standards in asset management Fault diagnosis and prognostics Financial analysis methods for physical assets Human dimensions in integrated asset management Information quality management Information systems and knowledge management Intelligent maintenance Intelligent sensors and devices Maintenance strategies in asset management Optimization decisions in asset management Prognostics Risk management in asset management Strategic asset management and Sustainability in asset management **Mechanical Science and Engineering IV** Yan Dong Wang,2014-01-08 Selected peer reviewed papers from the 4th International Conference on Mechanical Science and Technology ICMSE 2014 January 2 4 2014 Sanya Hainan Island China

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