

## 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

**Judd E. Hollander**



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now she slid one more sheet of paper toward mr grow let s add a few variations she said this poem for example uses true a true abc pattern in it the first letter of each line uses the alphabet in consecutive order it s called abecedarian format appropriate mr grow said i notice this is more like haiku

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the acrostic is easier to achieve by writing in the style of a list poem as starting each line is easier without the restriction of keeping the flow and using conjunctives etc use letters from within the poem as the acrostic element for example if the title

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