Second Semester B.E. Degree Examination, June / July 2014
Engineering Mathematics - II

Time: 3 hrs.

Max. Marks: 100

Note: *1. Answer FIVE full questions choosing at least two from each part.*
2. Answer all objective type questions only in OMR sheet page 5 of the Answer Booklet.
3. Answers to objective type questions on sheets other than OMR will not be valued.

PART - A

1 a. Choose the correct answer : (04 Marks)
   i) The general solution of the equation $x^2p^2 + 3xyp + 2y^2 = 0$ is
   (A) $(y^2x - c)(xy - c) = 0$ (B) $(x-y-c)(x^2 + y^2 - c) = 0$
   (C) $(xy - c)(x^2y-c) = 0$ (D) $(y-x-c)(x^2 + y^2 + c) = 0$
   ii) The given differential equation is solvable for y, if it is possible to express y in terms of
   (A) y and p (B) x and p (C) x and y (D) y and x
   iii) The singular solution of Clairaut's equation is
   (A) $y = xg(x) + f[g(x)]$ (B) $y = cx + f(c)$
   (C) $cy + f(c)$ (D) $y g^2(x) + f[g(x)]$
   iv) The singular solution of the equation $y = px - \log p$ is
   (A) $y^2 = 4ax$ (B) $x = 1 - \log x$ (C) $y = 1 - \log \left(\frac{1}{x}\right)$ (D) $x^2 = y \log x$

   b. Solve $p^2 - 2p \sin h\, x - 1 = 0$. (04 Marks)
   c. Solve $y = 2px + \tan^{-1}(xp^2)$. (06 Marks)
   d. Obtain the general solution and singular solution of Clairaut's equation is $(y - px)(p-1) = p$. (06 Marks)

2 a. Choose the correct answer : (04 Marks)
   i) The complementary function of $[D^4 + 4] x = 0$ is
   (A) $x = e^x [c_1 \cos t + c_2 \sin t] + e^t [c_3 \cos t + c_4 \sin t]$
   (B) $x = [c_1 \cos t + c_2 \sin t] + [c_3 \cos t + c_4 \sin t]$
   (C) $x = [c_1 + c_2 t] e^t$
   (D) $x = [c_1 + c_2 t] e^t$.
   ii) Find the particular integral of $(D^3 - 3D^2 + 4) y = e^{2x}$ is ____
   (A) $\frac{x^2 e^{2x}}{6}$ (B) $\frac{x^2 e^{2x}}{6}$ (C) $\frac{x^2 e^x}{6}$ (D) $\frac{x^2 e^{2x}}{6}$

   iii) Roots of $\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 5y = 0$ are ____
   (A) $2 \pm i$ (B) $3 \pm i$ (C) $2 \pm 2i$ (D) $-2 \pm i$
   iv) Find the particular integral of $(D^3 + 4D) y = \sin 2x$ is ____
   (A) $\frac{x \sin x}{8}$ (B) $\frac{-x \sin x}{8}$ (C) $\frac{-x \sin 2x}{8}$ (D) $\frac{x \sin 2x}{8}$

   b. Solve $\frac{d^3y}{dx^3} + 6\frac{d^2y}{dx^2} + 11\frac{dy}{dx} + 6y = e^x + 1$. (04 Marks)

   c. Solve $\frac{d^2y}{dx^2} - 4y = \cos h\, (2x - 1) + 3^x$. (06 Marks)

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