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Name GLEISH ARUN

# B.C.A. DEGREE (C.B.C.S.S.) EXAMINATION, NOVEMBER 2014

#### First Semester

#### MATRICES, CALCULUS AND LAPLACE TRANSFORMS

(Complementary Mathematics for B.C.A.)

[2013 Admission onwards]

Time: Three Hours

Maximum: 80 Marks

#### Part A (Short Answer Questions)

Answer all questions.

Each question carries 1 mark.

- Define non-singular matrix.
- 2. Define normal form of a matrix.
- 3. Find the inverse of the matrix  $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ .
- 4. If  $1 \frac{x^2}{4} \le u(x) \le 1 + \frac{x^2}{2}$  for all  $x \ne 0$ , find  $\lim_{x \to 0} u(x)$ .
- 5. Find the derivative of  $\frac{(x-1)(x^2-2x)}{x^4}$  with respect to x.
- 6. State Rolle's theorem.
- 7. Form a partial differential equation by eliminating A and B from  $2x = \frac{x^2}{A^2} + \frac{y^2}{B^2}$ .
- 8. Eliminate the arbitrary function f from  $z = e^{my} f(x y)$ .
- 9. By applying the definition of Laplace transform, find L (cos at).
- State the convolution theorem.

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