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**Question Paper Code : 80603**

**B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.**

**First Semester**

**Mechanical Engineering**

**MA 6151 — MATHEMATICS – I**

**(Common to all branches except Marine Engineering)**

**(Regulations 2013)**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

**PART A — (10 × 2 = 20 marks)**

1. If the sum of two eigenvalues and trace of a matrix  $A$  are equal, find the value of  $|A|$ .
2. Write down the matrix corresponding to the quadratic form  $2x_1^2 + 5x_2^2 + 4x_1x_2 + 2x_3x_1$ .
3. Define convergence series with example.
4. Find the coefficient of  $x^5$  in the expansion of  $(1 - x + x^2)e^{2x}$ .
5. Find the radius of curvature of the curve  $xy = c^2$  at  $(c, c)$ .
6. Find the envelope of the family of straight lines  $y = mx + \frac{a}{m}$ ,  $m$  being the parameter.
7. Find  $\frac{du}{dt}$  when  $u = x^2 + y^2$ ,  $x = at^2$ ,  $y = 2at$ .
8. If  $x = r \cos \theta$ ,  $y = r \sin \theta$ , find  $\frac{\partial(r, \theta)}{\partial(x, y)}$ .
9. Evaluate  $\int_0^1 \int_0^2 \int_0^3 xyz \, dx \, dy \, dz$ .
10. Change the order of integration in  $\int_0^1 \int_0^2 f(x, y) dx \, dy$ .

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