Question Paper Code: 10414

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2012.

Fourth Semester

Mechanical Engineering

ME 2254/113403/ME 45/CE 1259 T/10122 ME 405/080120018 — STRENGTH OF MATERIALS

(Common to Production Engineering and Automobile Engineering)

(Regulation 2008)

(Common to PTME 2254 – Strength of Materials for B.E. (Part-Time) Third Semester Mechanical Engineering, Regulation 2009)

Time: Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$.

- 1. Define elasticity.
- 2. Give the relationship between modulus of Elasticity and modulus of Rigidity.
- List out the types of beams.
- 4. What is point of contra flexure?
- Write the expression for torsional rigidity of solid circular shaft.
- State the differences between closed coil and open coil helical springs.
- Give the expression for deflection of a simply supported beam carrying a point load at the centre.
- State the limitations of Euler's formula.
- 9. List out the stresses induced in thin cylindrical shell due to internal pressure.
 - 10. What are principal planes and stresses?

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