

# 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 × 2 = 20 marks).

1. Define elasticity.
2. Give the relationship between modulus of Elasticity and modulus of Rigidity.
3. List out the types of beams.
4. What is point of contra flexure?
5. Write the expression for torsional rigidity of solid circular shaft.
6. State the differences between closed coil and open coil helical springs.
7. Give the expression for deflection of a simply supported beam carrying a point load at the centre.
8. 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?

# Fitting And Turning Past Exam Papers

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Paper Industry**



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Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers

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