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(Pages : 2)

Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, DECEMBER 2012

Fifth Semester

Branch : Mechanical Engineering/Production Engineering

PE 010 503 }
ME 010 503 } **ADVANCED MECHANICS OF MATERIALS (ME, PE)**

(Regular—New Scheme)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

Each question carries 3 marks.

1. Distinguish between Stress vector and Stress tensor.
2. Give an example for plane strain problems.
3. What are thick cylinders ? Write one of their applications.
4. What do you mean by "strain energy due to torsion" ?
5. State the importance of shear flow in beams.

(5 × 3 = 15 marks)

Part B

Each question carries 5 marks.

6. What are stress invariants and strain invariants ? Explain.
7. State and explain Saint Venant's principle.
8. Which are the parameters used to identify the effects of stress concentration ? Explain.
9. Derive reciprocal relations. State Maxwell reciprocal theorem. Discuss its limitations.
10. How will you find torsion effect in a solid bar of non-circular cross-section ? Give a standard methodology.

(5 × 5 = 25 marks)

Part C

Each question carries 12 marks.

11. Derive and explain all the constitutive equations. Explain the generalized Hooke's law. Discuss how these relations can be used to deduce expressions for plane stress conditions.

Or

12. Derive all the relations between elastic constants in solid mechanics. How are they useful in simplifying problems in elasticity ?

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