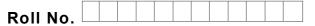


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M.Tech.(PE) (Sem.–2) JIG, FIXTURES & DIE DESIGN Subject Code : PE-508 Paper ID : [E0447]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. What is the main difference between jigs and fixtures? Explain in detail the various elements of jigs and fixtures.
- 2. Explain in detail the modulation design concept in process gauging.
- 3. What are the main elements of dies and punch, explain and also elaborate their design procedure?
- 4. Explain different types of loading and unloading devices.
- 5. What are non standard clamping devices? Explain their types.
- 6. Explain in detail different types of principles of clamping in jigs and fixtures.
- 7. What are assembly line fixtures explain?
- 8. Explain fits and tolerances analysis in jigs and fixtures by taking examples.