

- Q.8 Design a milling fixtures to cut a keyway of size 3 x 3 mm on a solid shaft of 30mm diameter and 100 m length
- Q.9 Design and draw a snap gauge or ring gauge for a specimen with complete design procedure. Assume suitable dimensions.

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4th Sem / T&D, CNC, CAD/CAM
Subject:- Jigs, Fixtures & Gauges - Design & Drawing

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Attempt any five questions. (5x8=40)

- Q.1 Define jig and fixture. Write advantages of jigs and fixtures.
- Q.2 Explain 3-2-1 principle of location with diagram.
- Q.3 Write short note on channel jig and box type jig.
- Q.4 Write about lathe and boring fixtures.
- Q.5 Explain Go and not go ends of gauges with diagram.
- Q.6 Write short note on
- a) Interchangeability
 - b) Welding fixtures

SECTION-B

Note: Long answer type questions. Attempt any two questions. (2x30=60)

- Q.7 Design and draw a drilling jig for drilling 8 holes of 10mm diameter on PCD of 80 mm diameter. The circular MS plate consists of 120 mm diameter and 30 mm thickness.