

- 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

 - Interchangeability
 - 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.

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