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

Time : 3 Hrs. **M.M. : 100**

SECTION-A

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

Q.1 Explain interchangeability in mass production. How jigs and fixtures help in achieving it?

Q.2 Explain different types of locating devices used for locating a work piece.

Q.3 Draw a neat sketch of a box type jig and name the parts.

Q.4 Explain any grinding fixture with neat sketch?

Q.5 Explain the role of Limit gauges in mass production with examples.

Q.6 Explain plug, ring and snap gauge in detail.

SECTION-B

Note : Long answer type question. Attempt any two parts. (30x2=60)

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

Q.8 Design a suitable milling fixture to cut a key way of size 3x3 mm on a solid shaft of 30 mm diameter and 100mm length.

Q.9 Write the proceduce steps for designing a plus gauge with go and not go side. Assuming suitable dimensions draw the same.