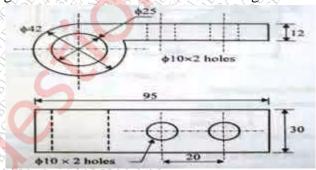
Paper / Subject Code: 32607 / Elective - I Design of Jigs and Fixtures

27-Nov-2019 1T01425 - T.E (Mechanical Engineering) (SEM-V)(Choice Base) / 32607 - Elective - I Design of Jigs and Fixtures 79166

3 Hours (80 Marks)

N.B.: (1) All questions carry equal marks.

- (2) Question No.1 Compulsory.
- (3) Attempt any three from remaining five questions.
- (3) Figures to the right indicate full marks.
- (4) Draw neat sketches wherever necessary.
- 1. Write short notes on the following. (Any four) (20)
 - (a) Essential features of Jigs or Fixtures
 - (b) Fool Proofing
 - (c) C Clamps
 - (d) Broaching Fixture
 - (e) Indexing Devices
- 2. (a) With the help of neat diagrams explain 3-2-1 locating principle. (10)
 - (b) Draw and explain multiple clamping and equalizing devices. (10)
- 3. (a) With the help of neat sketches explain various types of Jig bushes. (10)
 - (b) Sketch and explain latch Jig and Channel Jig. (10)
- 4. Design a Jig for drilling two holes of 10 mm diameter on the given work piece. (20)



- 5. (a) With neat sketches explain different turning fixtures (10)
 - (b) With neat sketches explain construction of Milling fixture (10)
- 6. (a) Describe Grinding fixtures. (10)
 - (b) Explain essential features of an Indexing Jigs/fixtures. (10)
