

**R09****Code: 9A03303**

B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017

**MACHINE DRAWING**

(Mechatronics)

Time: 4 hours

Max. Marks: 70

All answers should be on the drawing sheet only  
Answers on the drawing sheet only will be valued  
First angle projection to be adopted.

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**Section – I****(Answer any two)****02 X 04 = 08 Marks**

- 1 Sketch the aligned and unidirectional system of dimensioning.
- 2 Sketch the Whitworth thread and Butters thread.
- 3 Explain with the help of simple sketches chain dimensioning and parallel dimensioning.

**Section – II****(Answer any two)****02 X 10 = 20 Marks**

- 4 Draw sectional front view and top view of double riveted, double strap chain butt joint to join plates of thickness 10 mm.
- 5 Draw half sectional front view and side view of socket and spigot cotter joint to connect two rods of 30 mm diameter each.
- 6 Draw two views of suitable coupling to join two 60 mm diameter shafts, the axes of which are parallel to each other and 6 mm apart.

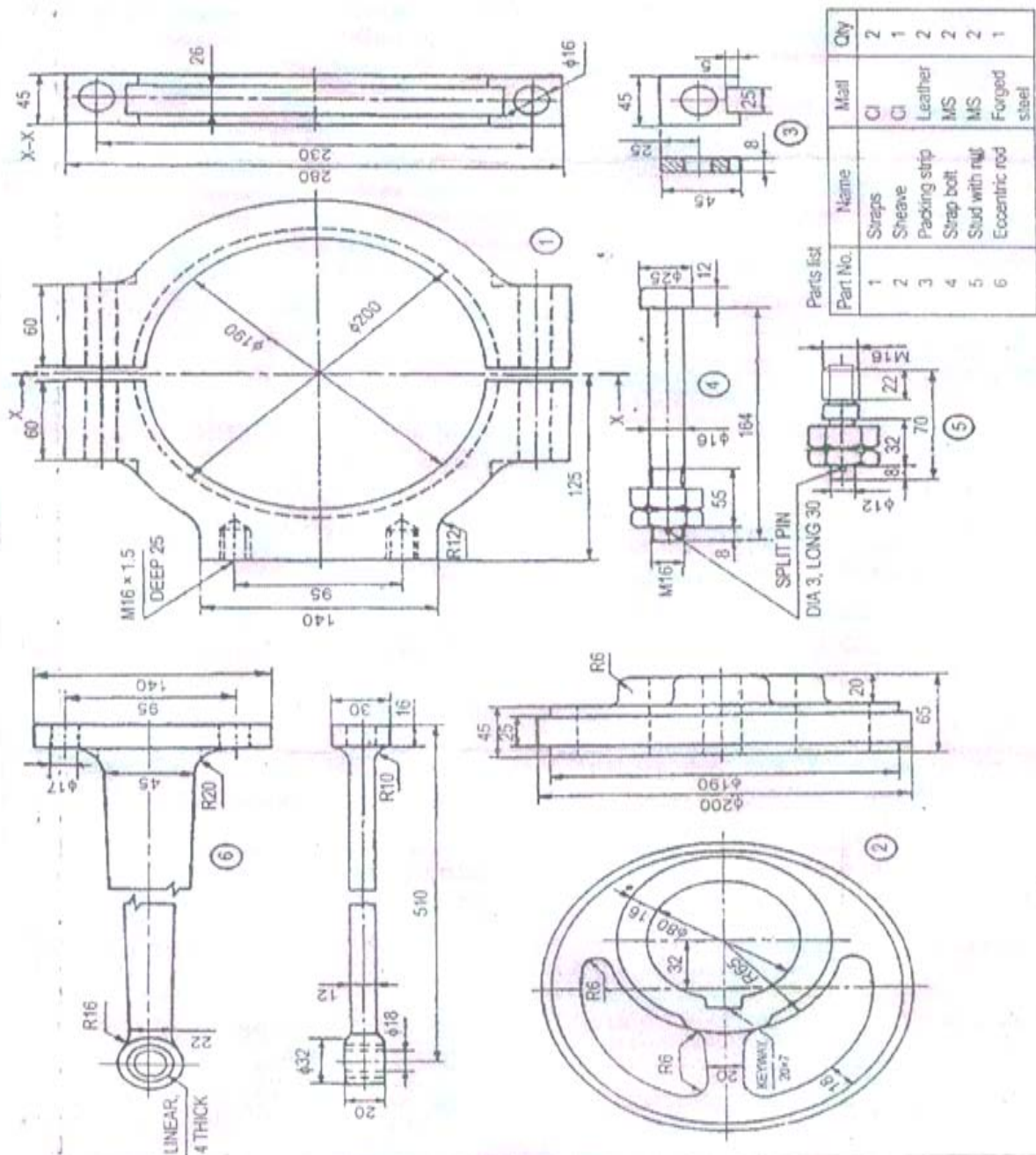
**Section – III****(Compulsory Question)****01 X 42 = 42 Marks**

- 7 The details of an eccentric are shown in figure below. Assemble the parts and draw:
  - (a) Front view top half in section.
  - (b) Left side view.
  - (c) Top view.

Contd. in page 2

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