

**R13****Code: 13A03303**

B.Tech II Year I Semester (R13) Supplementary Examinations June 2016

**MACHINE DRAWING**

(Mechanical Engineering)

Time: 4 hours

Max. Marks: 70

All answer should be on the drawing sheet only  
Answers on the drawing sheet only will be valued  
First angle projections to be adopted

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**Section – I**

Answer any two of the following ( 2 × 4 = 08 Marks)

- 1 Sketch the conventional representation of the following:
  - (a) Tin.
  - (b) Marble.
  - (c) Wax.
  - (d) Aluminium.
- 2 Draw the conventional representation of Spur gear and tension spring.
- 3 Sketch the following thread profiles for nominal size of 30 x 3 mm using suitable scale:
  - (a) B.S.W thread.
  - (b) Worm thread.

**Section – II**

Answer any two of the following ( 2 × 10 = 20 Marks)

- 4 Sketch any three types of machine screws of 10 mm diameter.
- 5 Sketch the sectional front view and side view of a protected flanged coupling indicating proportions to connect two shafts each of diameter 30 mm.
- 6 Draw sectional front view and top view of the double riveted, double strap chain butt joint of plates of thickness 10 mm.

**Section – III**

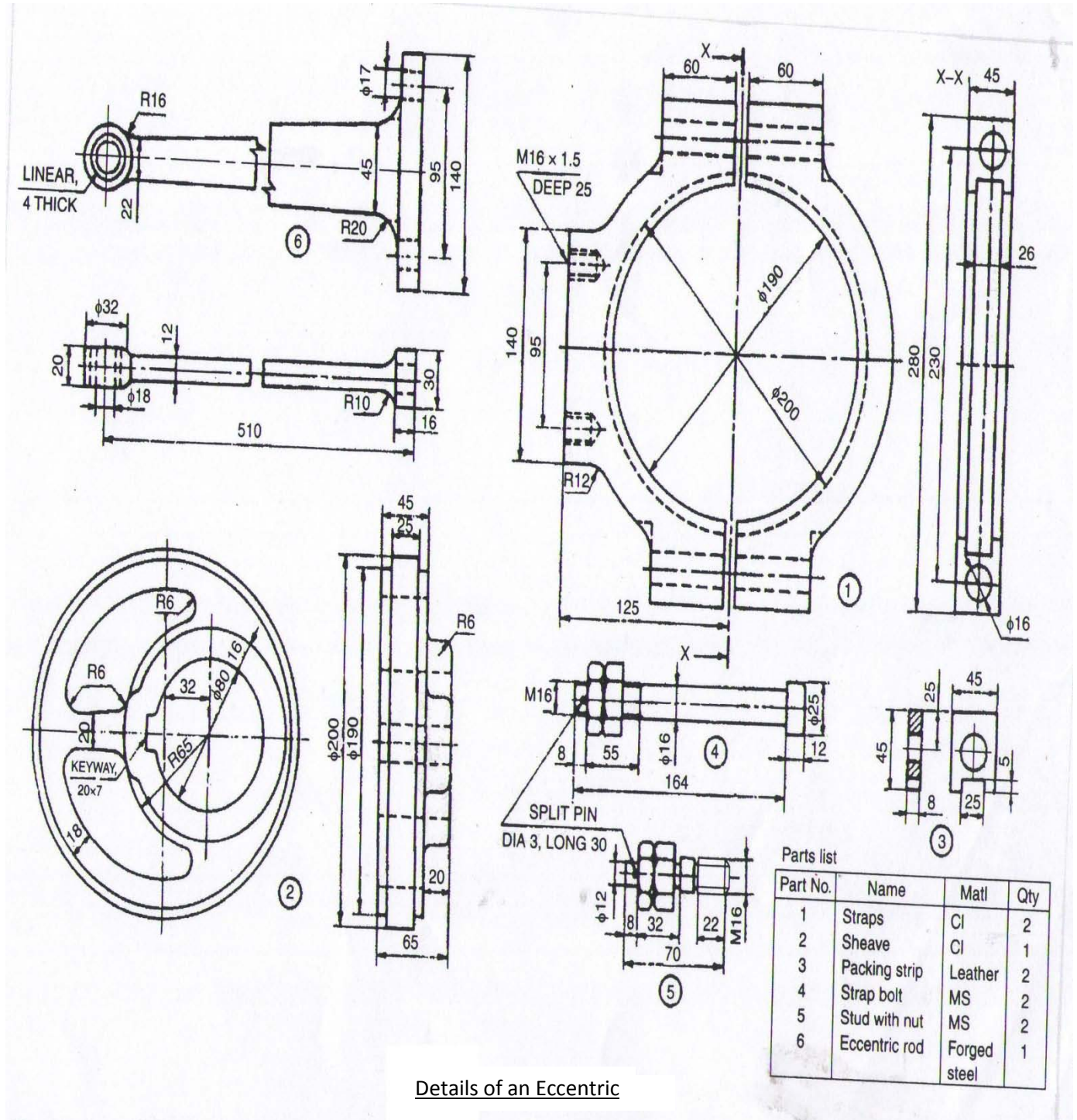
Answer the following (1 × 42 = 42 Marks)

- 7 The details of an Eccentric are shown in figure below. Assemble the parts and draw:
  - (a) Half sectional view from the front with top half in section.
  - (b) View from the right and view from above.

Contd. in page 2

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Details of an Eccentric

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