R13

Code: 13A03303

B.Tech II Year I Semester (R13) Regular Examinations December 2014

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 projection to be adopted

Section - I

(Answer any two) $2 \times 4 = 08$ Marks

- 1 Show by sketches:
 - (a) Dimensioning of chamfers.
 - (b) Dimensioning of countersinks.
- 2 Show by sketches dimensioning of tapered features:
 - (a) External.
 - (b) Internal.
- 3 Sketch the following thread profiles for a nominal size of 30 x 3 mm, to a scale of 10:1.
 - (a) BSW thread.
 - (b) Square thread.

Section - II

(Answer any two)

 $2 \times 10 = 20 \text{ Marks}$

- Draw three views of a hexagonal headed bolt of nominal diameter 30 mm and length 100 mm with a square nut and a washer in position.
- Draw the half sectional view from the front and view from the side of a Cottered joint with sleeve to connect two shafts of 40 mm dia. each.
- Draw the sectional view from the front (left half in section) and view from the above of a bushed journal bearing to support a shaft of dia. 50 mm.

Section - III

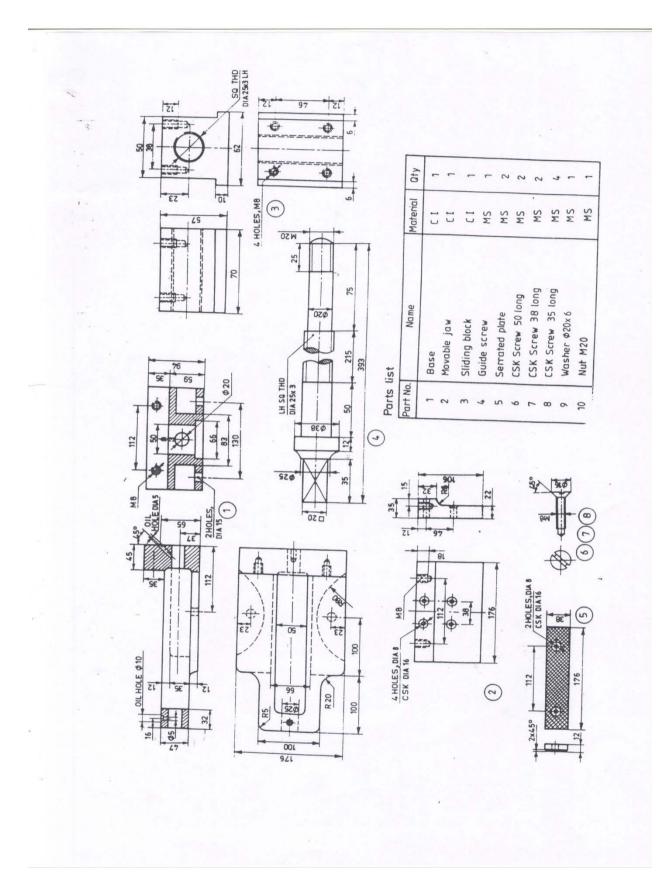
 $1 \times 42 = 42 \text{ Marks}$

Assemble all parts of the Machine vice given in the fig. and draw (i) Sectional view from the front. (ii) View from the above and (iii) View from the left.

Contd. in page 2

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Page 2 of 2