Code: 13A03303 R13

B.Tech II Year I Semester (R13) Supplementary Examinations June 2015

MACHINE DRAWING

(Mechanical Engineering)

Time: 3 hours Max. Marks: 70

Answer all questions
All answers should be on drawing sheet only and they alone will be valued
First angle projection to be adopted

Section - I

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

- 1 Sketch the conventional representation of the following materials.
 - (i) Bronze. (ii) Cast iron. (iii) Gravel. (iv) Plywood.
- 2 Sketch the conventional representation of the following:
 - (i) Splined shaft. (ii) Cylindrical compression spring.
- 3 Sketch the following thread profile for a nominal size of 30 x 3 mm, to a scale of 10.1.
 - (i) V thread. (ii) ACME thread.

Section - II

Answer any two of the following ($2 \times 10 = 20$ Marks)

- 4 Draw three views of a hexagonal headed bolt of nominal diameter 30 mm and length 100 mm with a Hexagonal nut and a washer in position.
- Draw the half sectional view from the front and view from the left of a simple flanged coupling to connect two shafts of dia. 'D' and mark proportions on the views.
- Draw the half sectional view from the front (Top half in section) and view from the left of a socket and spigot joint connecting two pipes of dia. 'D' and mark proportions on the views.

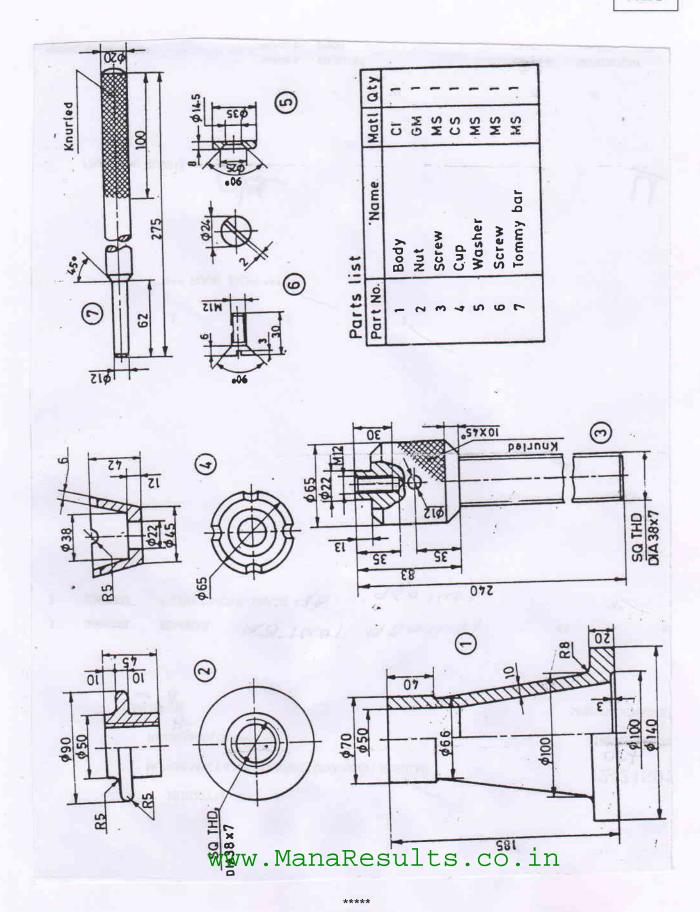
Section – III

Answer the following $(1 \times 42 = 42 \text{ Marks})$

- 7 Assemble all parts of the Screw Jack given in the figure and draw:
 - (i) Half sectional view from the front (with right half in section).
 - (ii) View from the above.
 - (iii) View from the right.

Contd. in page 2

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