Code: 9A03303

R09

B.Tech II Year I Semester (R09) Supplementary Examinations December 2015

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
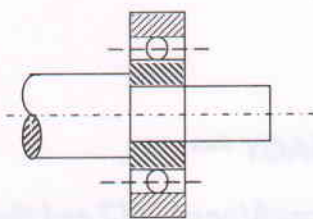First angle projections to be adopted.
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Section – I
(Answer any two)

02 X 04 = 08 Marks

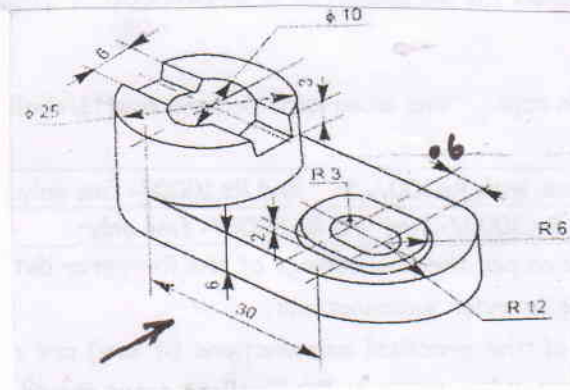1   Draw the conventional representation of the following components as shown in figure below.
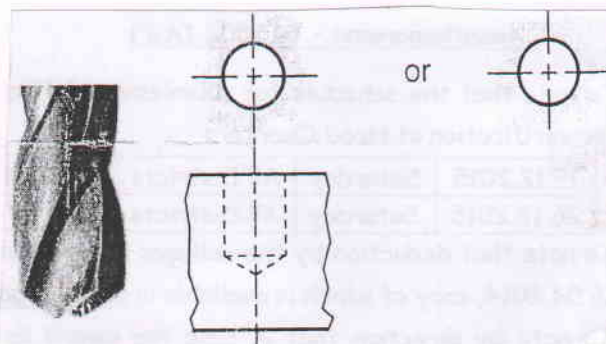

Bearings

Cylindrical tension spring

2   Draw the sectional view from the front, the view from above and the view from left of a component shown in figure below.

3   Dimension the components shown in figure below, as per the manufacturing process used.
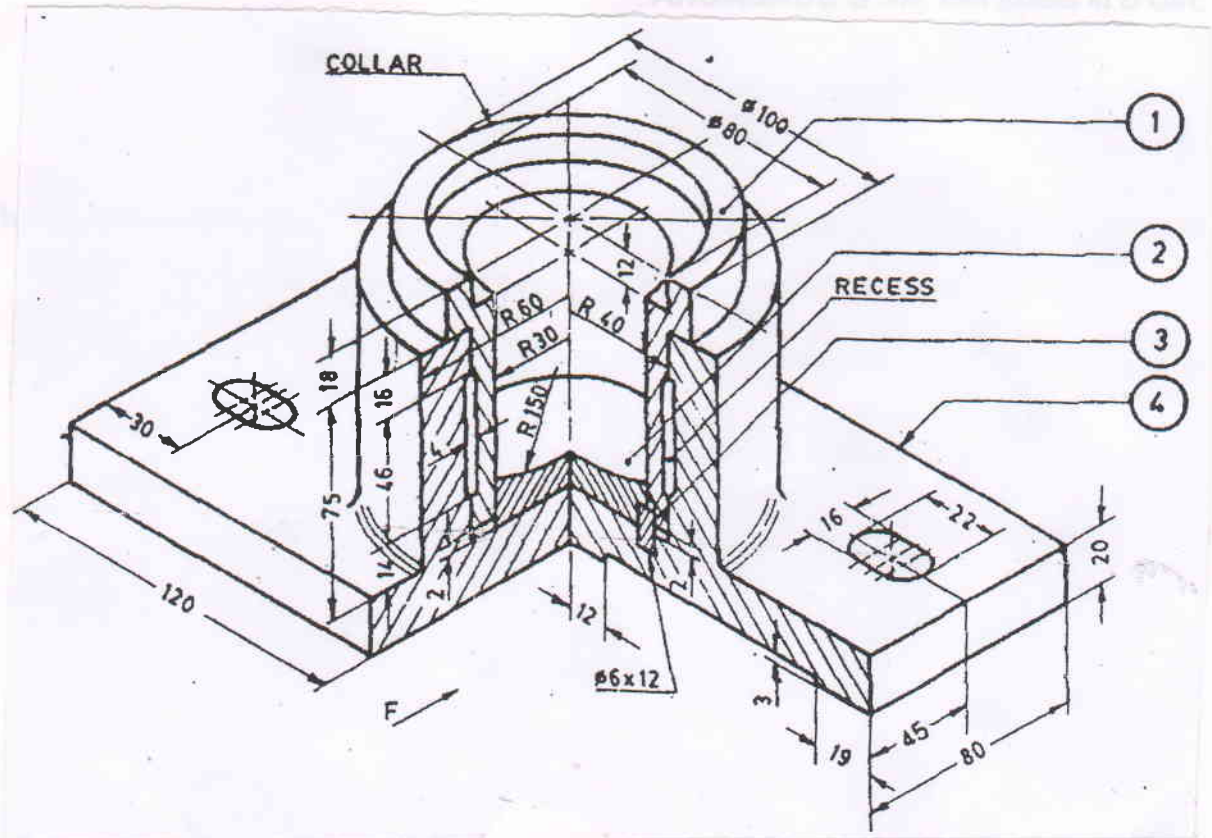

or

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Section – II
(Answer any two)

02 X 10 = 20 Marks

4   Draw the front view of an assembled spigot and socket cotter joint used to connect two 35 mm shafts. Also indicate the overall dimensions.

5   Draw the sectional front view and top view of double row, zig-zag butt joint show in at least two rivets on each side. Take the rivet diameter as 20 mm.

6   An isometric view of the Foot step bearing is shown in figure below. Draw the sectional front view (left half in section) and top view of part 4 shown in the assembly.

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Section – III

(Compulsory Question)   01 X 42 = 42 Marks

7   Draw the sectional front view and top view of the assembled steam engine cross head from given figure below and part list.

Parts list

Part No.	Name	Matl	Qty
1	Block	CS	1
2	Piston rod	MS	1
3	Gudgeon pin	MS	1
4	Slide block	CI	2
5	Cotter	MS	1

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