

Code: 9A21301

R09

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

AIRCRAFT ENGINEERING DRAWING WITH CAD

(Aeronautical Engineering)

Time: 3 hours

Max. Marks: 70

All questions to be answered
First angle projection to be adopted

Section – I

Answer any two of the following (02 × 5 = 10 Marks)

- 1 Draw two views of woodruff key for a shaft of diameter 25 mm with all proportional dimensions.
- 2 Draw conventional representation of the following materials:
 - (a) Glass.
 - (b) Packing and insulating materials.
 - (c) Liquids.
 - (d) Wood.
 - (e) Concrete.
- 3 Sketch the conventional representation of the following:
 - (a) External threads.
 - (b) Internal threads.
 - (c) Splined shaft.
 - (d) Bearing.
 - (e) Square on shaft.

Section – II

Answer any two of the following (02 × 10 = 20 Marks)

- 4 Draw the sectional front view and top view of a knuckle joint used to connect two rods of 25 mm diameter each.
- 5 Draw sectional front view and top view of double strap diamond butt joint to join the plates of thickness of 10 mm.
- 6 Draw:
View from the front.
Sectional view from the side of a Plummer block suitable for supporting a shaft of diameter 30 mm.

Contd. in page 2

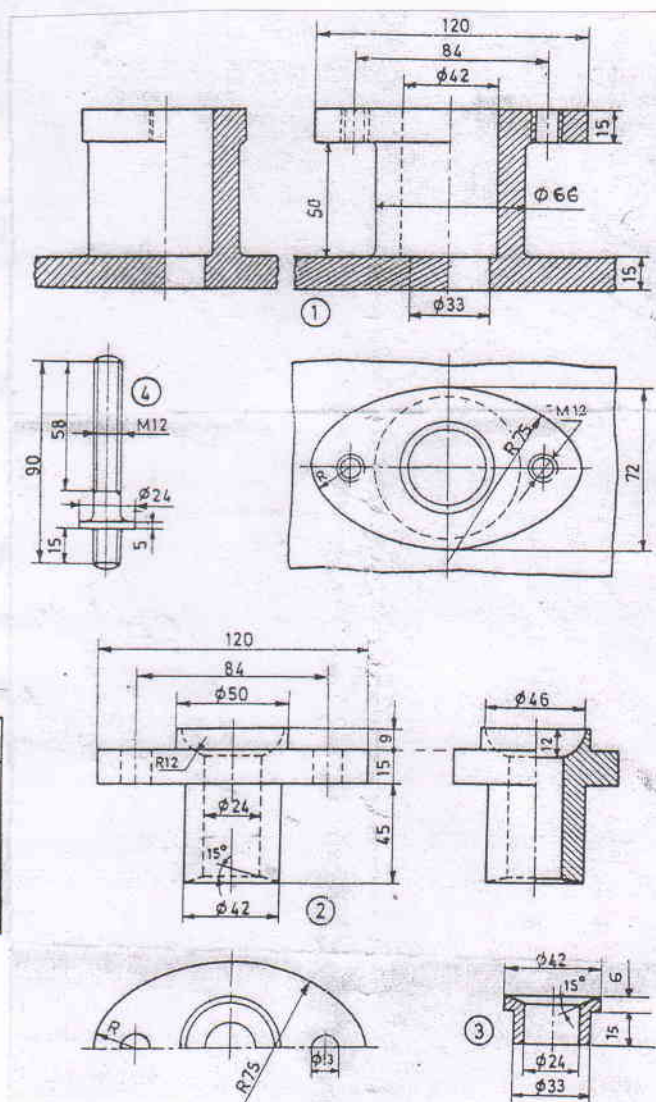
Code: 9A21301

R09

Section – III

Answer the following (01 × 20 = 20 Marks)

7. Assemble the parts of Stuffing box shown in figure below and draw (i) sectional view from the front. (ii) View from the right.



Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Gland	Brass	1
3	Bush	Brass	1
4	Stud	MS	2
5	Nut, M12	MS	2

Section – IV

Answer the following (01 × 20 = 20 Marks)

- 8 Explain the command prompt procedure for the isometric figure given below, using Auto CAD.

