

Co	de: 9A21301			
B.Tech II Year I Semester (R09) Supplementary Examinations. May 2012				
AIRCRAFT ENGINEERING DRAWING WITH CAD				
(Aeronautical Engineering)				
Time: 3 hours Max Marks: 70				
	First angle projection to be adopted			

	Section – I			
	(Answer any two of the following) $5 \times 2 = 10 \text{ M}$			
1	Sketch the conventional representation of the following materials:			
	(i) Steel (ii) Glass (iii) Wood (iv) Cement (v) Porcelene.			
2	 Show by sketches: (i) Parallel dimensioning (ii) Chain dimensioning. Show by sketches dimensioning of tapered features (i) External and (ii) Internal. 			
3	Draw the front view and top view of a hexagonal nut and mark proportions in terms of nominal diameter 'D'. Section II (Answer any two of the following) $10 \times 2 = 20 \text{ M}$			
4	Draw the sectional view from the front and view from the side of a cottered joint with sleeve the			
5	connect two shafts of 40 mm dia. each Draw the sectional view from the front and view from the top of the double riveted double strap chain butt joint with dia of the rivet as 16 mm			
6	Draw the half sectional view from the front (left half in section) and view from the above of a bushed journal bearing to support a shaft of diameter 'D' and mark proportions on the views.			
7	Section – III $20x1 = 20 \text{ M}$ Details of double wheel landing gear are shown in the figures in pages 2 and 3. With dimensionsin cm. Assemble all the parts and provide the following views of the assembled double wheelanding gear. View from the front and view from the right. Take suitable scale.Section – IV $20x1 = 20 \text{ M}$			
8	Write the commands in sequence in CAD (any) to generate the model shown in the figure in page 4. Dimensions are in mm (write in drawing sheet only)			
	Page 1 of 4			



Figure for question number 7

Page 2 of 4

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1



2- OLEO STRUT





	PART LIST	
SI No	PART NAME	QTY
1	Base plate	1
2	Oleo strut	.1
3	Brace strut	1
4	Side Brace strut	2
5	Link	2
6	Axle	1
7 .	Wheel	2

4 - SIDE BRACE STRUT

Figure for question number 7

Page 3 of 4



Figure for question number 8

Page 4 of 4