

## SET-3

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD II.B.TECH - I SEMESTER REGULAR EXAMINATIONS NOVEMBER, 2009 AIRCRAFT ENGINEERING DRAWING (AERONAUTICAL ENGINEERING)

Time: 3hours

Max.Marks:80

Answer any two questions from Part A and Part B is compulsory.

## PART-A

(2X20= 40Marks)

- 1a) Draw thread profiles of square thread, buttress thread, sharp V thread.
- b) Draw the two views of taper sunk key positioned in a shaft of diameter 25 mm and Hub of diameter and mark dimensions on it.
- 2. Draw the top view and sectional front view of a single riveted lap joint. Take Thickness of plate as 12 mm.
- 3. Draw a 2-d sectional profile of NACA 2410 from the data given below. Take Airfoil chord of 25 mm for your workout.

Upper Surface		A - 2410 Lower Surface	
G 11. 11		Station	Ordinate
Station	0	0	. 0
0		1.402	-1.448
1.098	1.694	2.703	-1.927
2.297	2.411	5.258	-2.482
4,742	3.420	and the second se	-2.809
7.217	4.169	7.783	-3.016
9.710	4.766	10.290	-3.227
14.722	5.665	15.278	
19,761	6.276	20.239	-3.276
24.814	6.668	25,186	-3.230
29.875	6.875	30.125	-3.125
	6.837	40.000	-2.837
40.000	6,356	49.951	-2,468
50.049	5.580	59,915	-2.024
60,085	4	69,898	-1.551
70.102	4.551	79.903	-1.074
80,097	3.296	89.933	-0.594
90.067	1.816		-0.352
95.067	0.990	94.959	-0.150
100.000	0.105	100.000	-0,1.5
	L.E rac	fius : 1.10 s through L.E: 0.1	

PART-B

- 1. Figure fives the part drawings of old hen coupling. Assemble all the parts and draw the following assembled views.
  - a) Sectional front view b) Side view

