

SET-1

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)

- 1.a) Draw the conventional representation of lead, glass, porcelain, and square on Shaft.
 - b) Draw three views of hexagonal headed bolt and nut for 30 mm diameter.
- 2. Draw half sectional front view of solid flanged coupling used to connect shafts of 25mm diameter.

3. Draw 2-d airfoil of NACA 0009. Using the following data

Table

NACA - 0009.	
Distance from L.E., % chord	Upper and lower surfaces %chord
0	0
1.25	1.42
2.5	1.96
5.0	2.67
7.5	3.15
10	3.51
15	4.01
20	4.31
30	4.50
40	4.35
50	3.98
60	3.50
70	2.75
80	1.97
90	1.09
95	0.61
- 100	0

PART-B

(40Marks)

- 1. Figure gives the part drawings of loading gear hydraulic cylinder. Assemble all the parts and draw the following assembled views.
 - a) Half sectional front view
 - b) Side view

