R07

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

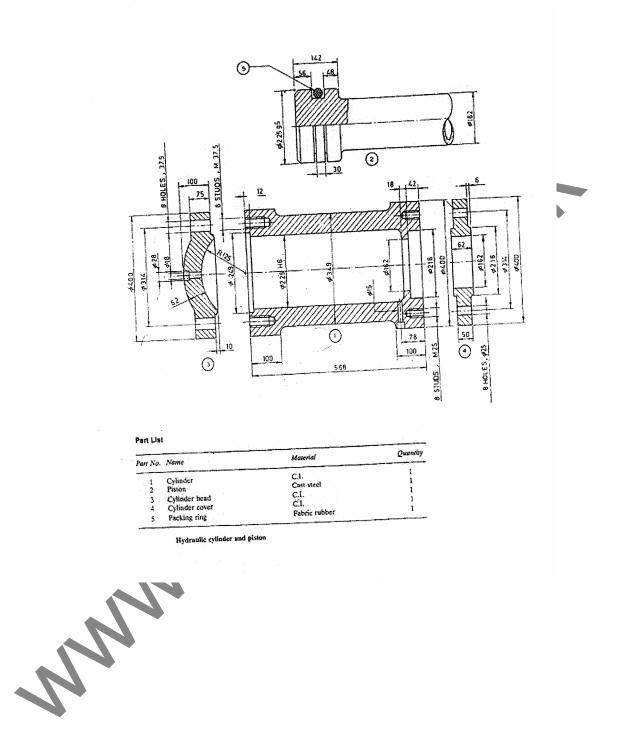
Distance from L.E. % chord	Upper and lower surfaces %chord
0	0
1.25	1,42
2.5	1.96
5.0	2.67
7.5	3.15
10	3.51
15	4.01
20	4,31
30	4.50
40	4.35
50	3.98
60	3.50
70	2.75
80	1.97
90	1.09
95	0.61
100	0

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

send sms like ON<space>ENGINEERINGSITE to 9870807070 4r Site Updates.



For more Stuffs Visit www.worldwebsites8.blogspot.com, Owner: N.Rajeev.

R07

SET-2

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

Time: 3hours

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

PART-A

(2X20=40Marks)

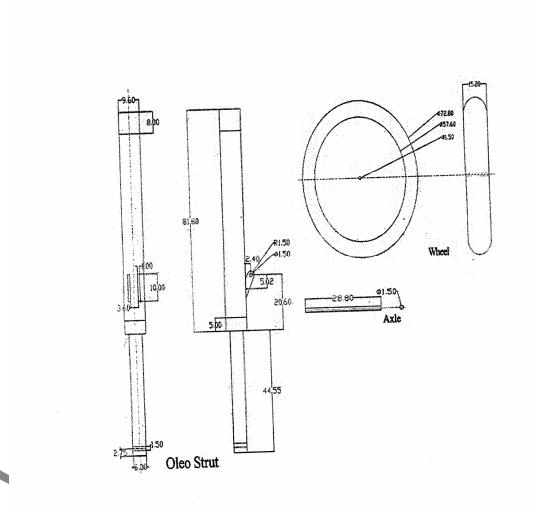
Max.Marks:80

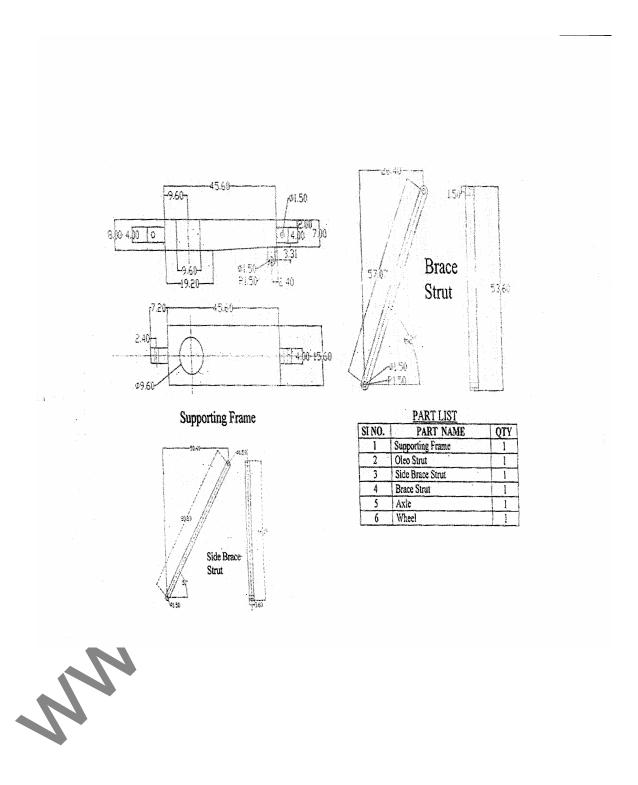
- 1.a) Draw the conventional representation for diamond knurling, straight knurling, Wood, holes on circular pitch.
 - b) Draw the sketches of look bolt and eye bolt.
- 2. Draw the sectional front view of muff coupling to connect shafts of 30mm Diameter.
- 3. Draw a 2-d sectional profile of NACA 2415 from the data given below. Take Airfoil chord of 25cm for your workout.

	Upper surface		Lower surface	
	Station	Ordinate	Station	Ordinate
	· · · · · · · · · ·		0	0
	1.25	2.71	1.25	-2.06
	2.5	3.71	2.5	-2.86
	5.0	5,07	5.0	-3.84
	7.5	6.06	7.5	-4.47
	10	6.83	10	-4.90
	15	7.97.	15 -	-5.42
	20	8.70	20	-5.66
	25	9.17	25	-5.70
	30	9.38	30	-5.62
	40	9.25	40	-5.25
	50	8.57	50	-4.67
	60	7.50	60	-3.90
	70	6.10	.70	-3.05
	80	4.41	80	-2.15
` I	90	2.45	90	-1.17
	95	1.34	95	-0.68
	100	(0.16)	100	(-0.16)
	100		100	0
	Slope	L.E. radi of radius th		E.:0.10

PART-B (40Marks)

- 1. Figure gives the part drawings of single wheel landing gear. Assemble all the parts and draw the following assembled views.
 - a) Front view
 - b) Side view





R07

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)

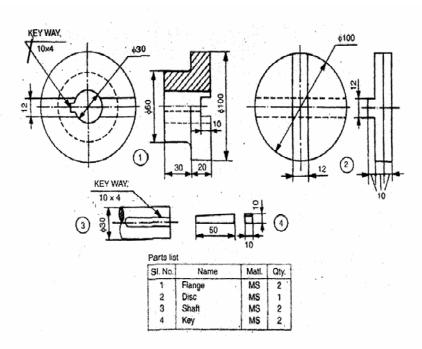
- 1a) Draw thread profiles of square thread, buttress thread, sharp V thread.
- b) Draw the two views of taper sunk key positioned in a shaft of diameter 25 mm and Hub of diameter and mark dimensions on it.
- 2. Draw the top view and sectional front view of a single riveted lap joint. Take Thickness 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 - 1410 Lower Surface	
		Station	Ordinate
Station	0	0	0
0	1.694	1.402	-1.448
1.098		2,703	-1.927
2.297	2.411	5.258	-2,482
4,742	3.420	7.783	-2.809
7.217	4.169		-3.016
9.710	4.766	10.290	-3.227
14.722	5,665	15.278	-3.276
19.761	6.276	20.239	-3.270
24.814	6.668	25,186	-3.125
29.875	6.875	30.125	The second secon
40,000	6.837	40.000	-2.837
50.049	6.356	49.951	-2.468
60.085	5,580	59.915	-2.024
70.102	4,551	69.898	-1,551
	3.296	79.903	-1.074
80,097	1.816	89.933	-0.594
90.067	0.990	94.959	-0.352
95.067	0.105	100,000	-0.150
100.000		lius: 1.10	

PART-B

(40Marks)

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





R07

SET-4

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\(\delta\) 40Marks)

- 1. Draw the two views of socket and spigot pipe joint to connect two pipes of Diameter 20 mm.
- 2. Draw sunk key and wood ruff key with proportions.
- 3. Draw 2-d airfoil of NACA 0009. Using the following data.

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 drawing of double wheel lending gear. Assemble all the parts and draw the following assembled views.
 - a) Front view
 - b) Side view

For more Stuffs Visit www.worldwebsites8.blogspot.com, Owner: N.Rajeev.

send sms like ON<space>ENGINEERINGSITE to 9870807070 4r Site Updates.

