

# Model Question Paper-1 with effect from 2019-20 (CBCS Scheme)

USN

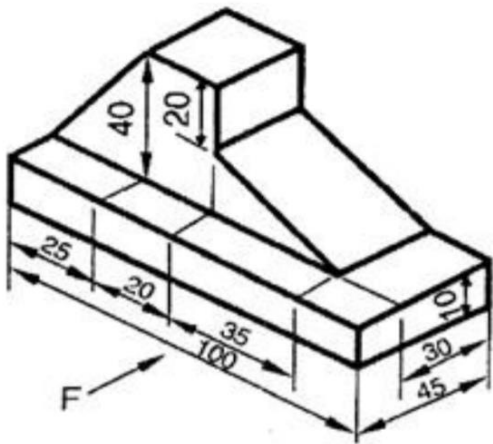
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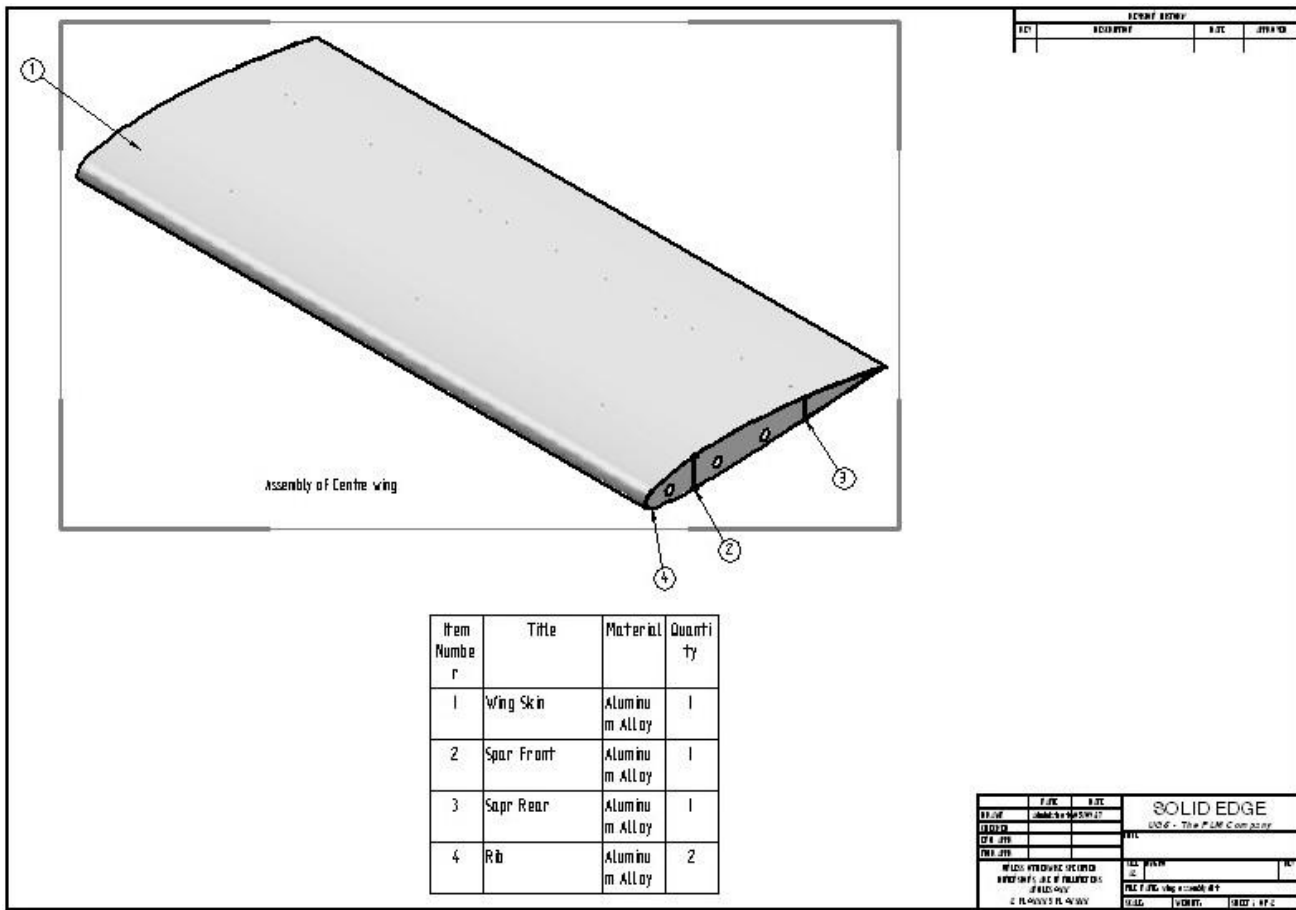
## Fourth Semester B.E. Degree Examination COMPUTER AIDED AIRCRAFT DRAWING

TIME: 03 Hours

Max. Marks: 100

- Note:
01. Answer any one question from each of parts A, B and C
  02. Use First angle projection only
  03. Missing data if any may be suitably assumed
  04. All the calculation should be on answer sheet supplied
  05. All the dimensions are in mm
  06. Part C assembled view should be in 3D and other 2 views in 2D

PART - A		*Bloom's Taxonomy Level	Marks
Q.01	A Pentagonal pyramid of 20mm edge of base and 40mm height stands vertically with its base on HP and an edge of the base perpendicular to VP. A sectional plane perpendicular to HP and inclined at $30^\circ$ to VP cuts the pyramid such that it passes through the pyramid at a shortest distance of 5mm from its axis and in front of it. Draw its sectional front view and true shape of the section.	L3	20
OR			
Q.02	For the object shown below draw the three views. Show all dimensions	L3	20
			
PART-B			
Q. 03	Draw two views of hexagonal headed bolt with nut for a 20mm diameter bolt. Take length of bolt 100mm.	L3	20
OR			
Q.04	Draw a neat sketch of ISO thread profile of pitch 50mm. Indicate all dimensions	L3	20
PART-C			
Q. 05	The Details of WING ASSEMBLY are shown in the fig 1. Draw front, top and left views of the assembly	L3	60
OR			
Q. 06	The Details of ENGINE MOUNT ASSEMBLY are shown in the fig 1. Draw front, top and left views of the assembly	L3	60

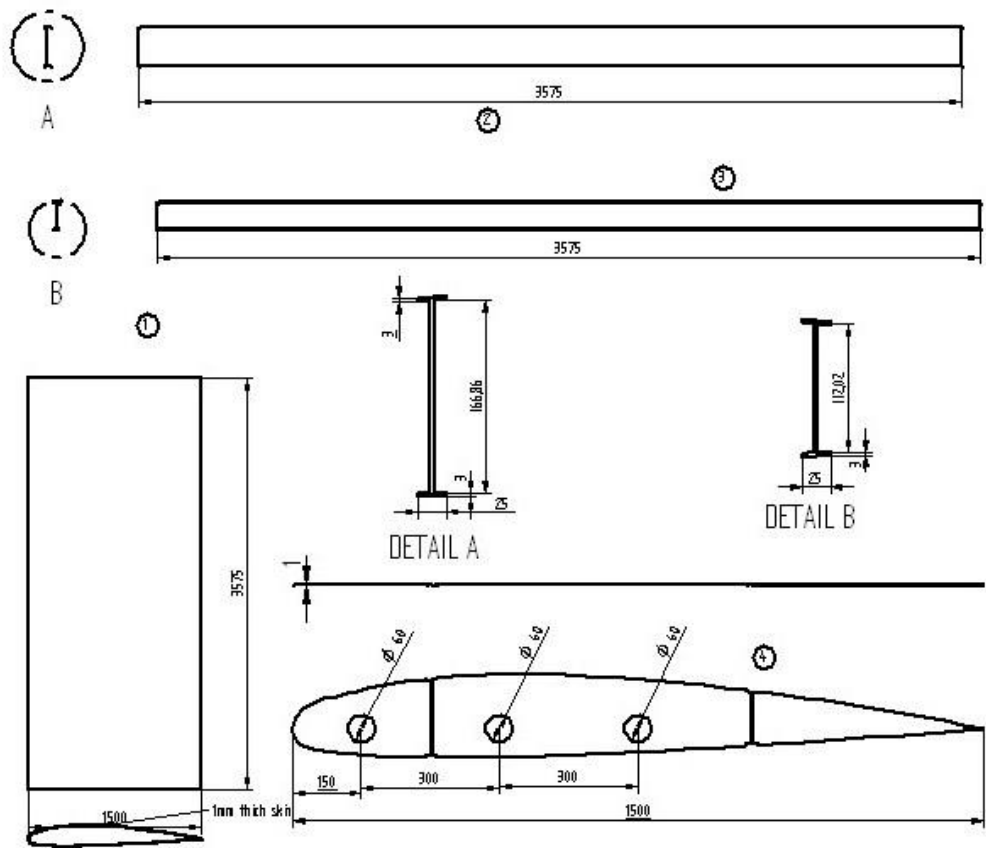


REV	DESCRIPTION	DATE	BY	CHKD

FILE	18AEL48	DATE	2018-08-27
DESIGNER			
DATE			
REV			
REV			

**SOLID EDGE**  
 SOLID - The PDM Company



Airfoil Co-ordinate Details-2412			
X	Y	Z	
1	0	0.0013	
0.95	0	0.0114	
0.8	0	0.0375	
0.6	0	0.0636	
0.4	0	0.078	
0.25	0	0.0767	
0.15	0	0.0661	
0.075	0	0.0496	
0.025	0	0.0299	
0	0	0	
0.025	0	-0.0227	
0.075	0	-0.0346	
0.15	0	-0.041	
0.25	0	-0.0422	
0.4	0	-0.038	
0.6	0	-0.0276	
0.8	0	-0.015	
0.95	0	-0.0048	
1	0	-0.0013	

Item Number	Title	Material	Quantity
1	Wing Skin	Aluminum Alloy	1
2	Spar Front	Aluminum Alloy	1
3	Sapr Rear	Aluminum Alloy	1
4	Rib	Aluminum Alloy	2

Fig 1

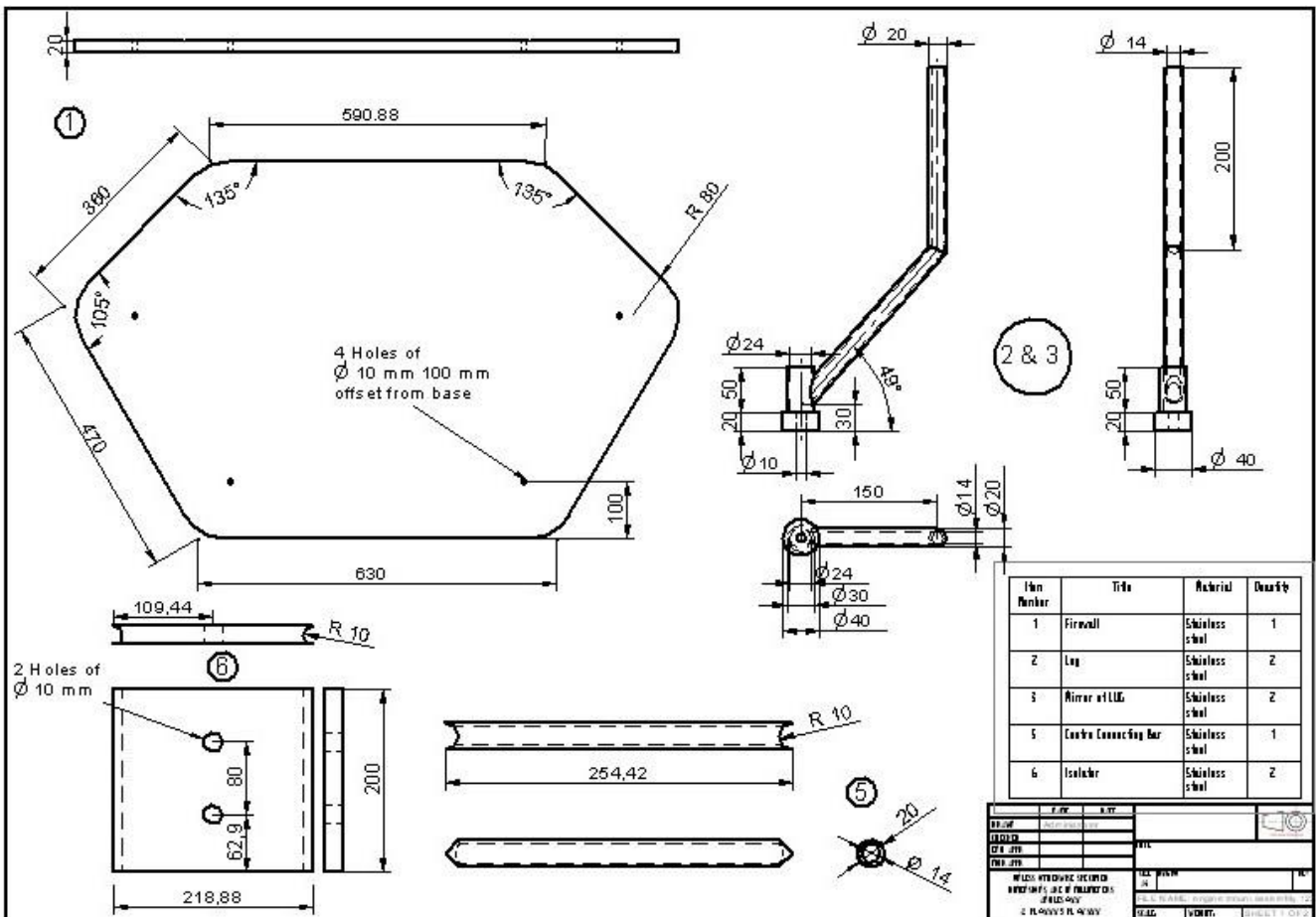
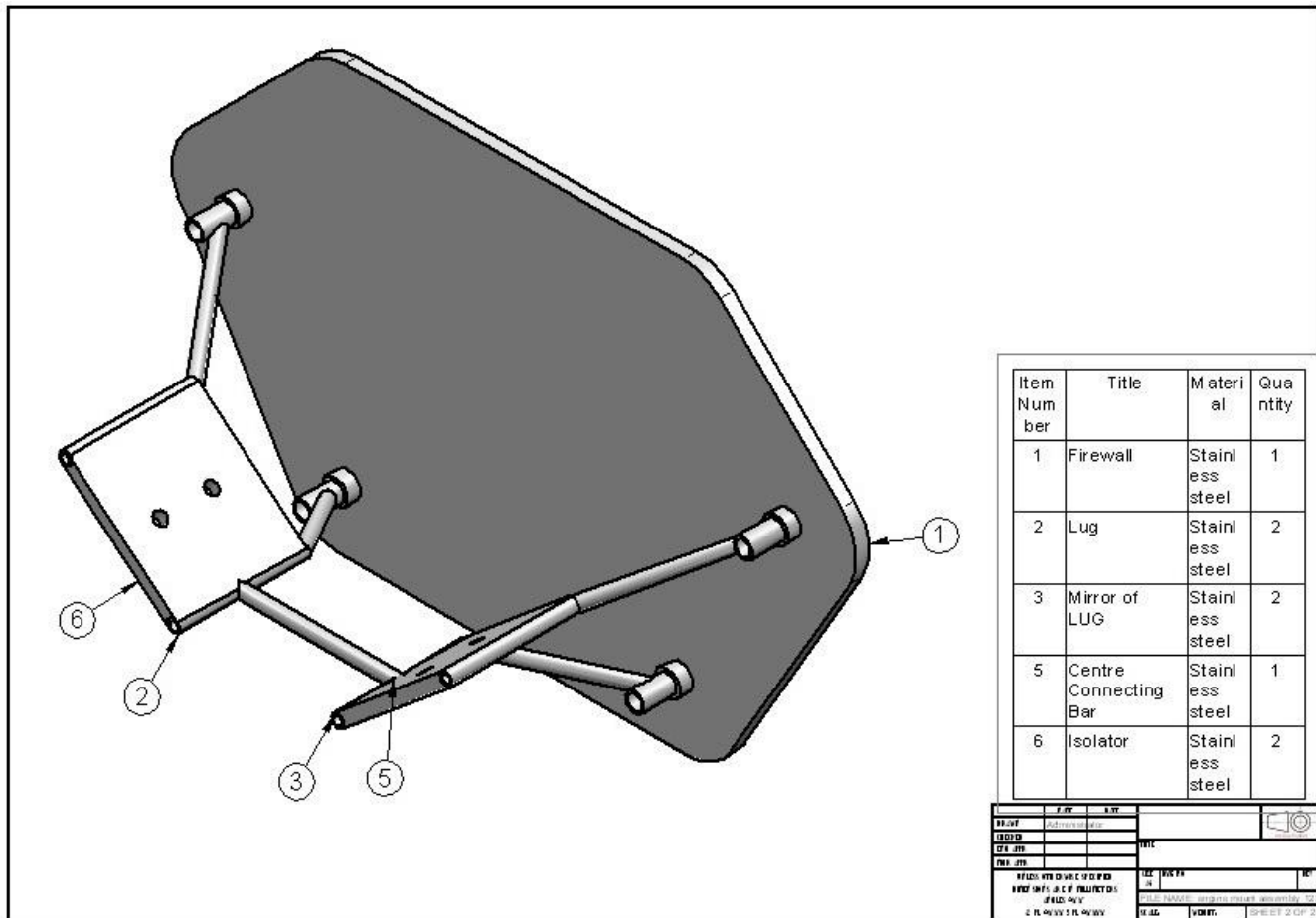


Fig 2