

USN

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Fourth Semester B.E Degree Examination, July/August 2022
(AE/AS)

COMPUTER AIDED AIRCRAFT DRAWING

Time:3 Hours

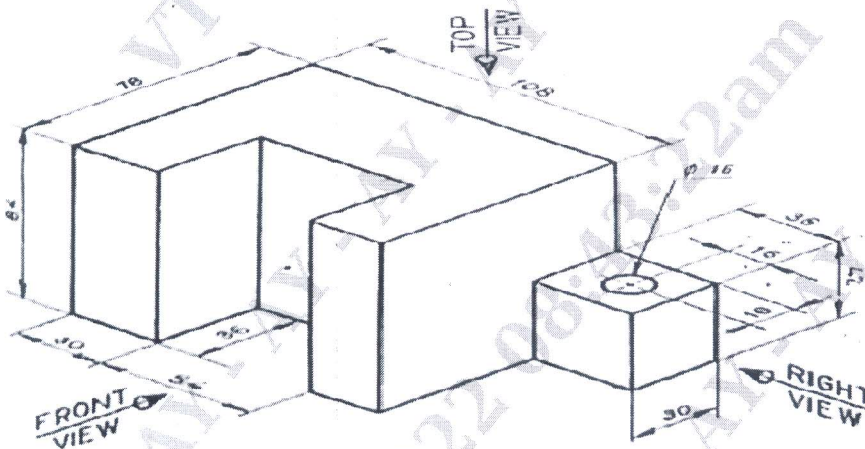
Max. Marks:100

Note:

1. Answer any one question from each of parts A,B and C
2. Use First angle projection only
3. Missing data if any may suitable may assumed
4. All the calculation should be on answer sheet supplied
5. All the dimensions are in mm
6. Part C assembled view should be in 3D and other 2 views in 2D

Part-A

1. A cone of base diameter 60mm and axis length 70mm rests with its base on the HP. It is cut by a section plane perpendicular to both VP and HP and is located at a distance of 10mm right of the axis. Draw the sectional right view, front view and true shape of section. **20 marks**
2. For the object shown below draw the three views. Show all the dimensions.



20 marks

Part-B

3. Draw two views of hexagonal headed bolt with nut for a 20mm dia bolt. Take length of bolt 100mm. **20 marks**
4. Draw sectional FV and TV of the double riveted chain butt joint with double strap, taking $t=12\text{mm}$. Indicate dimensions. **20 marks**

Part-C

5. The details of LANDING GEAR ASSEMBLY are shown in fig1. Draw front, top and left views of the assembly. **60 marks**
6. The details of a ENGINE MOUNT ASSEMBLY are shown in fig2. Draw front, top and left views of the assembly. **60 marks**

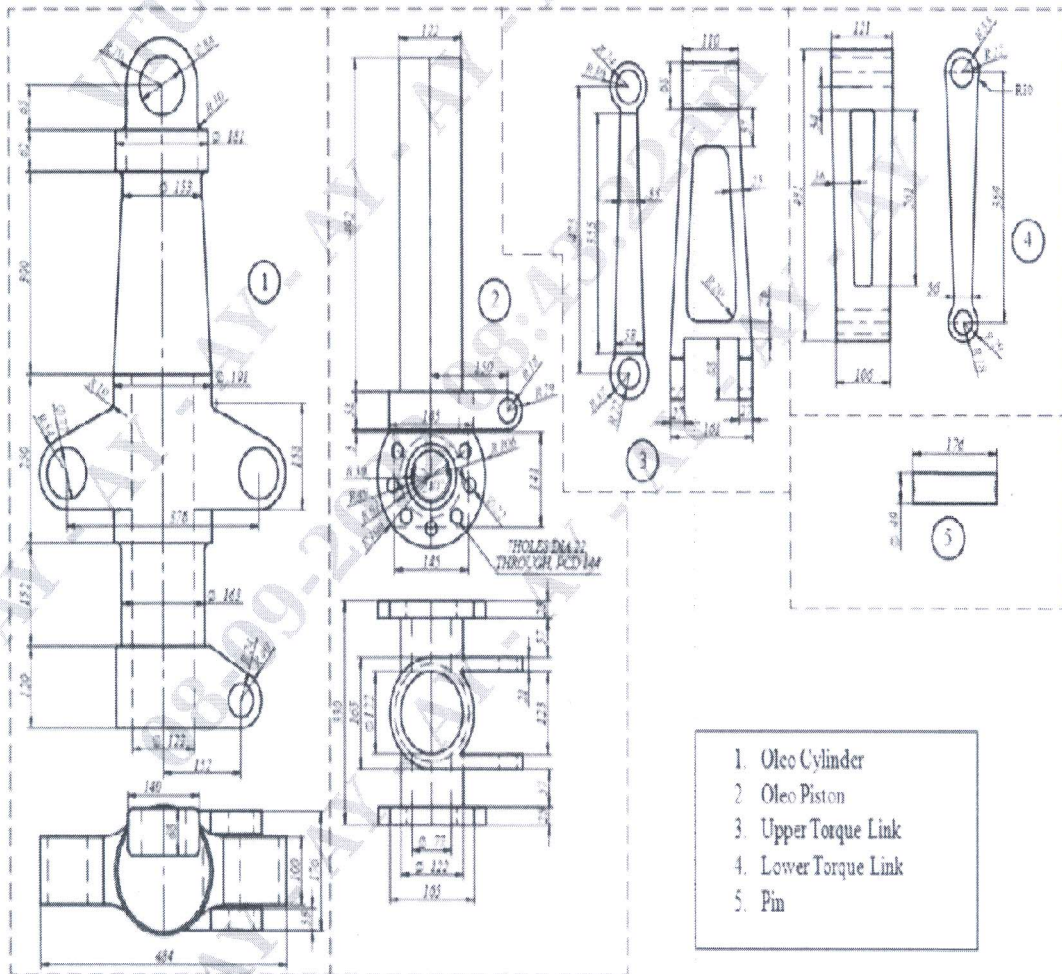
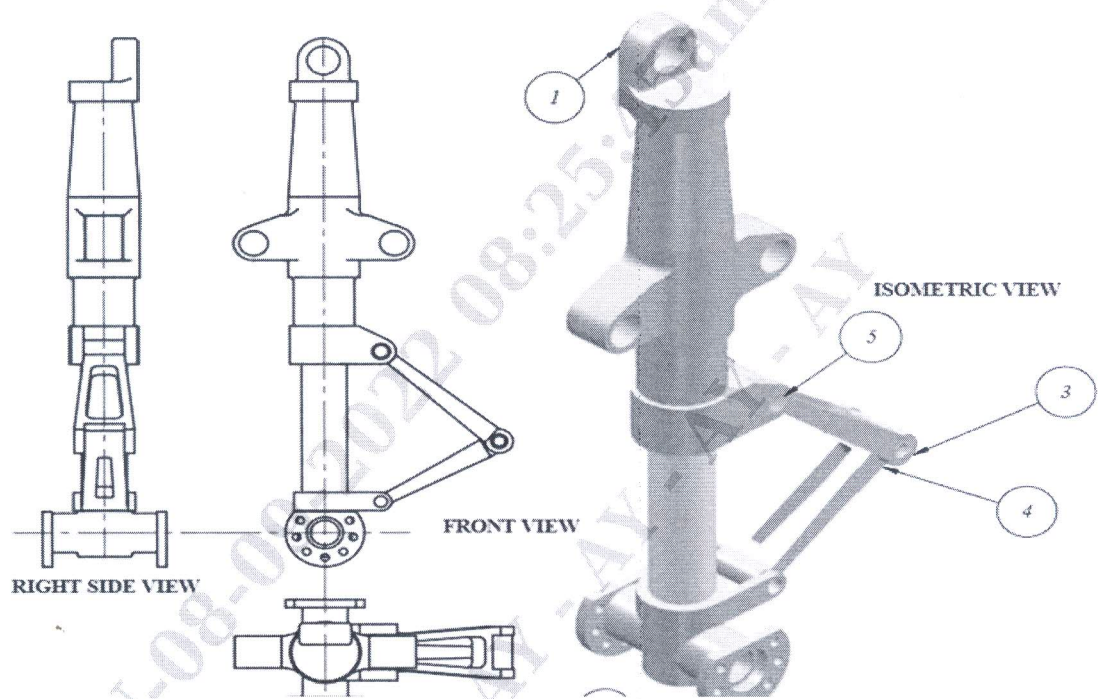


Fig 1.

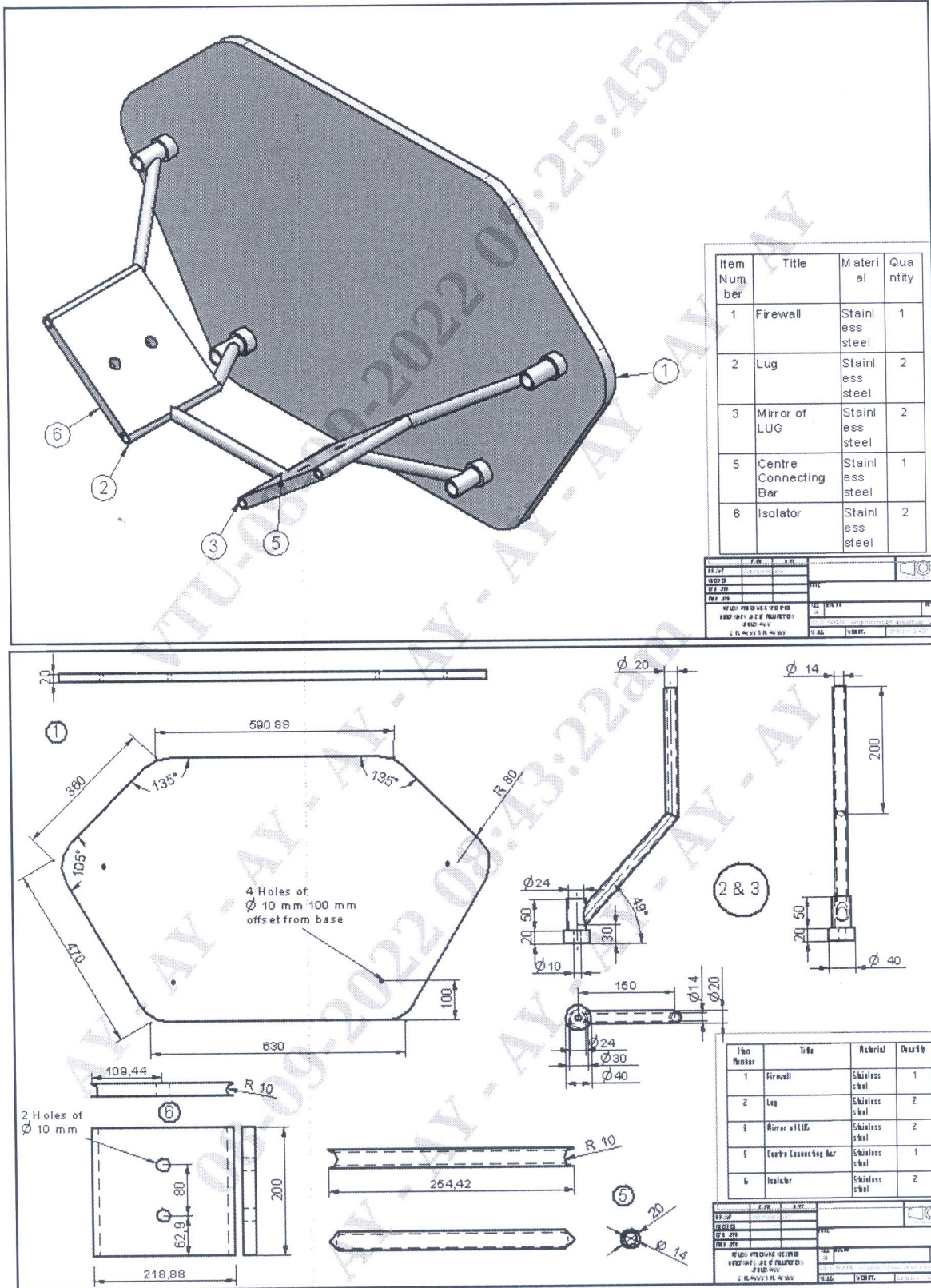


Fig 2.