

# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## June 2025 Semester End Main Examinations

**Programme: B.E.**

**Semester: III**

**Branch: Aerospace Engineering**

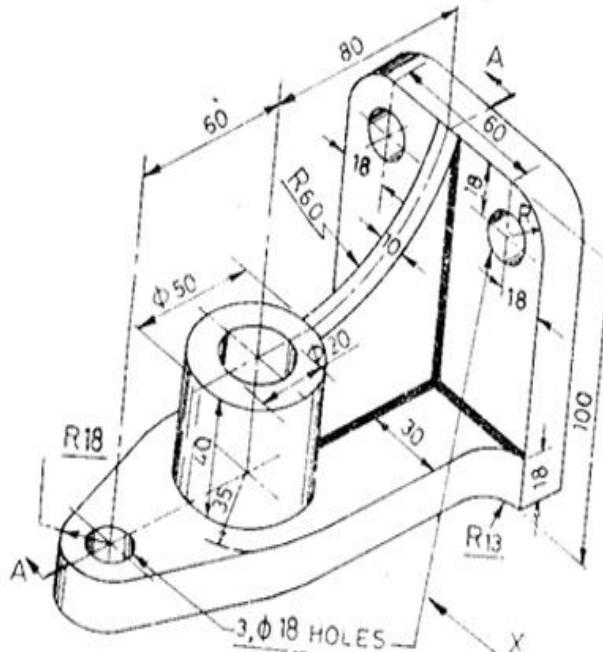
**Duration: 3 hrs.**

**Course Code: 23AS3PCASD**

**Max Marks: 100**

**Course: Aerospace Drafting**

**Instructions:** 1. Answer any three full questions, choosing one full question from each part.  
2. Missing data, if any, may be suitably assumed.

<b>PART -A</b>			<b>CO</b>	<b>PO</b>	<b>Marks</b>
1	For the object shown (FIG.Q1) below draw the three views. Show all dimensions.	 <p style="text-align: center;">FIG.Q1</p>	<i>CO1, CO2</i>	<i>PO2</i>	<b>20</b>
	<b>OR</b>				
2	Draw the profile of the following threads and indicate all the dimensions. i) ISO thread (Internal and External) having pitch 60mm, ii) ACME thread having pitch 50mm.		<i>CO1, CO2</i>	<i>PO2</i>	<b>20</b>

**Important Note:** Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

### PART-B

3 Draw to 1:1 scale the top and sectional front views of a double riveted lap joint with zig –zag riveting. The thickness of the plates is 9 mm. Show at least three rivets in each row. Indicate all the dimensions. Use snap headed rivets.

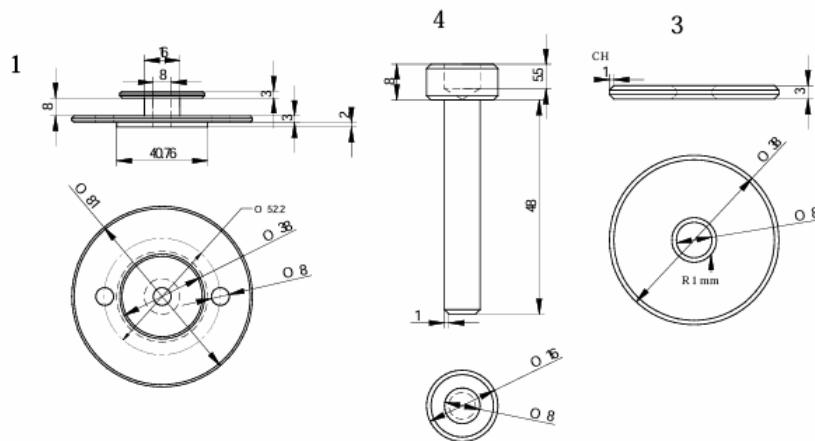
**OR**

4 Draw to 1:1 scale the top and sectional front views of a double riveted butt joint with double cover plates and chain riveting. The thickness of the plates is 9 mm. Show at least three rivets in each row. Indicate all the dimensions. Use snap headed rivets.

### PART-C

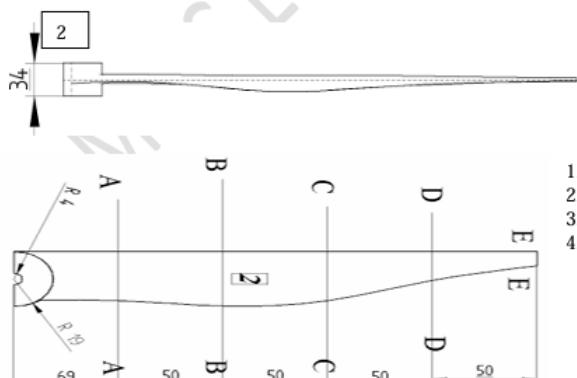
5 The details of the propeller and hub assembly are shown in the FIG.Q5. Draw front, top and left views of the assembly. Use suitable scale.

**Propeller and Hub**



Thickness of the blade (in mm)

Height of The HUB	HUB	A-A	B-B	C-C	D-D	E-E
34	7	7	7	7	4	2
	CHORD	CHORD	CHORD	CHORD	CHORD	CHORD
	5	5	8	8	3	1
	Width	34	38	34	20	10



1. Mount Plate  
2. Propeller  
3. Face plate  
4. Lock Bolt

FIG.Q5

*CO1,  
CO2*

*PO2*

**20**

*CO1,  
CO2*

*PO2*

**20**

*CO3*

*PO3*

**60**

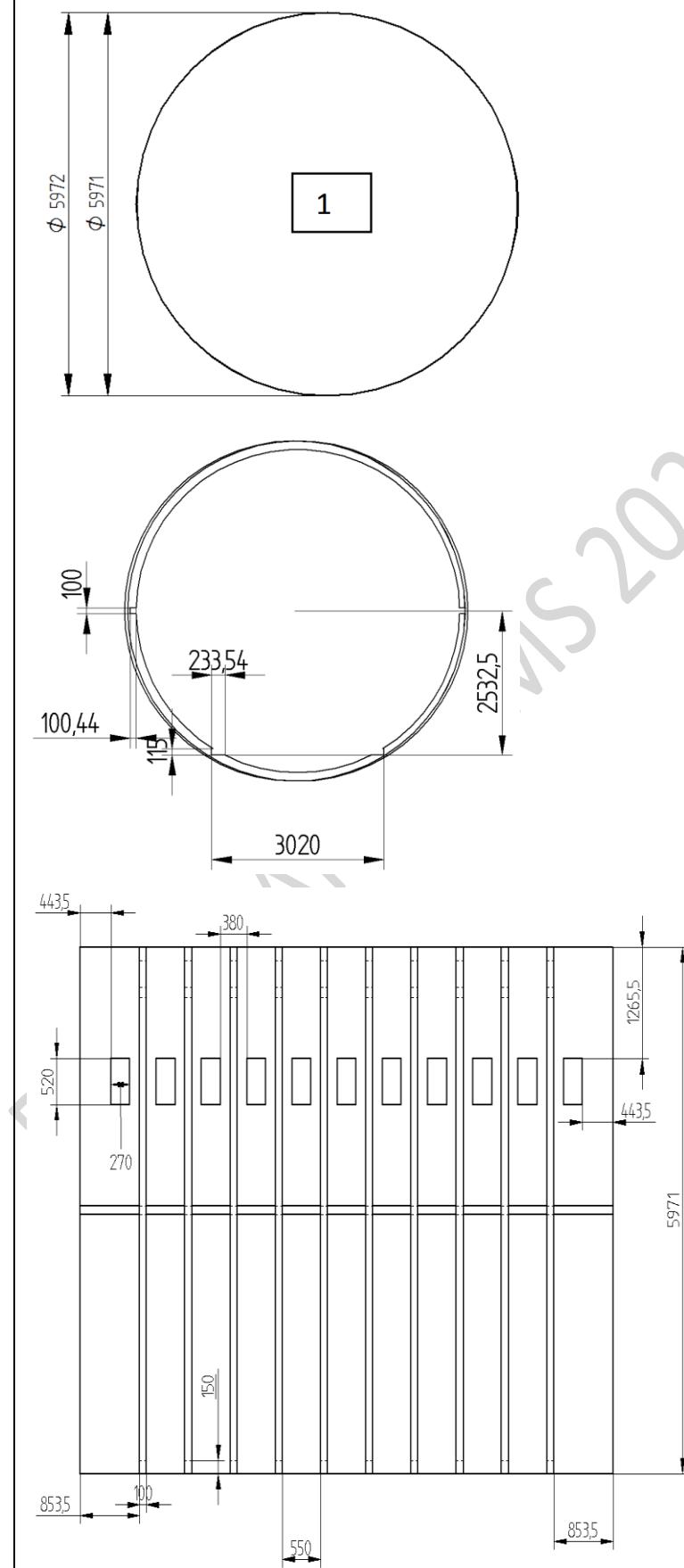
**OR**

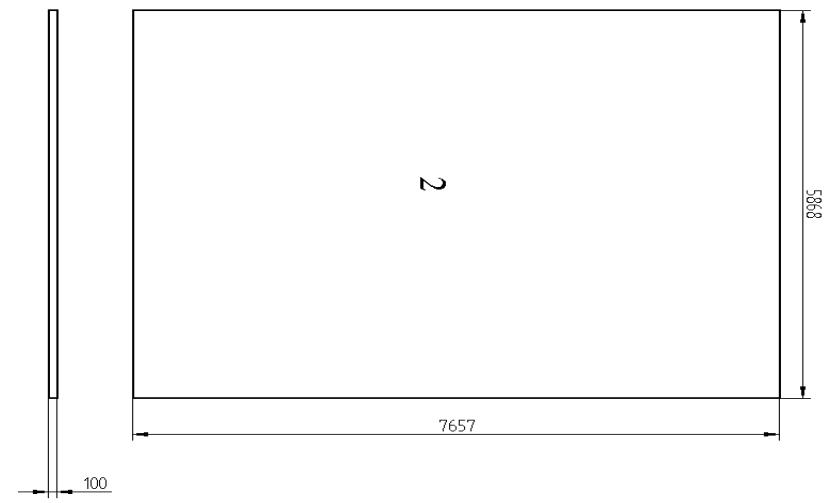
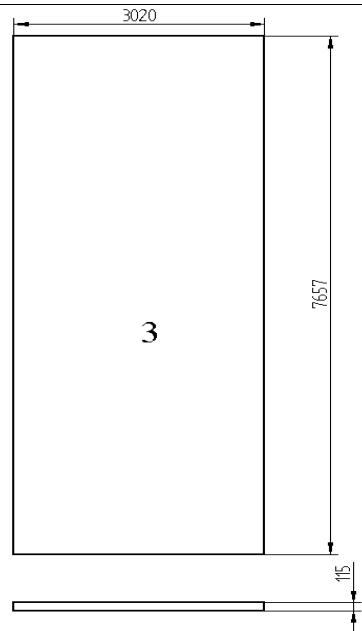
6 The Details of fuselage is shown in the fig. Q6. Draw front, top and left views of the assembly.

CO3

PO3

**60**





Item Number	Title	Material	Quantity
1	CASING	Aluminum, 6061-T6	1
2	CENTRE FLOORING	Aluminum, 6061-T6	1
3	LOWER FLOORING	Aluminum, 6061-T6	1

Fig.Q6

\*\*\*\*\*