



Roll No.

--	--	--	--	--	--	--	--	--	--

ANNA UNIVERSITY (UNIVERSITY DEPARTMENTS)

B.E. /B.Tech / B. Arch (Full Time) - END SEMESTER EXAMINATIONS, NOV / DEC 2025

PRINTING AND PACKAGING TECHNOLOGY

IV Semester

PP23S01 Package 3D Modeling

(Regulation 2023)

Time: 1.5 hrs.

Max. Marks: 50

**PART- A (3 Marks x 10 =30 Marks )**  
(Answer all Questions)

Q. No.	Questions	Marks
1.	Write any 3 features of CATIA.	3
2.	List the applications of 3D modeling software.	3
3.	What are the requirements of Hole feature?	3
4.	Distinguish between Pad and Revolve features.	3
5.	How does reuse of standard parts benefits assembly modeling?	3
6.	What are the transformation operations available for solid features?	3
7.	Write the procedure to assign materials in CATIA.	3
8.	What is Generative Drafting?	3
9.	Write any three standard geometry file formats.	3
10.	What are the steps in performing Generative Part Structural analysis?	3

**PART- B (5 Marks x 4 = 20 Marks)**  
(Answer any 4 Questions)

Q. No.	Questions	Marks
I.	With neat diagram, explain the features used for part design in CATIA.	5
II.	Enumerate the various methods by which the display can be manipulated using the mouse in CATIA.	5
III.	How will you create a parametric design with constraints in CATIA using sketcher? Explain in detail.	5
IV.	Outline the sequence for creating a solid part from a sketch.	5
V.	Differentiate between the outcomes of different Boolean operations with example.	5
VI.	Illustrate the specification tree and explain its features.	5