UNIT-III

S. No.	Questions	BTL	CO	PO
	Part–A(Short Answer Questions)			
1	State the assumptions of simple bending theory.	L1	CO1	1
2	Define neutral axis.	L1	CO1	1
3	Define neutral layer.	L2	CO1	2
4	What is section modulus?	L1	CO1	1
5	Define flexural stress.	L2	CO1	2
6	State the bending equation.	L1	CO1	1
7	Define moment of inertia.	L1	CO1	1
8	What is the significance of section modulus?	L2	CO1	2
9	Where is bending stress maximum in a beam?	L2	CO1	2
10	Where is shear stress maximum in a rectangular beam?	L2	CO1	2
11	What is the significance of the section modulus?	L1	CO1	1
12	Write the bending equation.	L2	CO1	2
13	Define section modulus.	L1	CO1	1
14	Define shear stress in beams.	L2	CO1	2
15	Write the shear stress formula	L2	CO1	2
	Part– B(Long Answer Questions)			
1	Derive the bending equation.	L4	CO3	3
2	Explain assumptions made in simple bending theory.	L4	CO3	3
3	Determine bending stresses in rectangular sections.	L4	CO3	3
4	Determine bending stresses in solid circular sections.	L3	CO3	2
5	Determine bending stresses in hollow circular sections.	L4	CO3	3
6	Determine section modulus of I-section.	L4	CO3	3
7	Determine section modulus of T-section.	L4	CO3	3
8	Design a simple beam section using bending theory.	L3	CO3	2
9	Numerical problems based on flexural stresses.	L4	CO3	3

Blooms Taxonomy Level (BT) (L1–Remembering; L2–Understanding; L3–Applying; L4– Analyzing; L5–Evaluating; L6–Creating)