

UNIT-I

S.No.	Questions	BTL	CO	PO
Part–A (Short Answer Questions)				
1	Explain the principles of prestressing?	L2	CO1	PO1
2	What is meant by tendons?	L1	CO1	PO1
3	What are the various systems of prestressing?	L1	CO1	PO1
4	What is meant by anchorage?	L1	CO1	PO1
5	What are the ways of improving the shear resistance a prestressed concrete beam?	L1	CO1	PO1
6	What is the minimum grade of concrete used for prestress?	L1	CO1	PO1
7	Why high strength concrete is necessary for prestress?	L2	CO1	PO2
8	Distinguish between concentric and eccentric prestressing?	L3	CO1	PO1
9	Brief application of post tensioned system.	L2	CO1	PO1
10	Why a parabolic tendon preferred in prestressed concrete?	L2	CO1	PO2
11	What are the advantages of prestressed concrete over reinforced concrete?	L1	CO1	PO1
12	Explain partial prestressing.	L2	CO1	PO1
Part– B (Long Answer Questions)				
1	Explain why high strength concrete and high strength steel are needed for PSC construction.	L2	CO1	PO1
2	State different types of prestressing..	L2	CO1	PO1
3	Discuss the load deflection behaviour of under prestressed, partially prestressed and over prestressed members in detail.	L2	CO1	PO1
4	Explain concept of limit states, partial safety factor	L2	CO1	PO1
5	Explain the advantages and limitations of prestressed concrete.	L2	CO1	PO1
6	Explain durability, fire resistance and cover requirements of PSC members.	L2	CO1	PO1

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