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Structural Analysis- I

Important 2mark questions

Unit I

1. Define static indeterminacy.
2. Determine the prop reaction of a propped cantilever using energy method when it is subjected to a uniformly distributed load over the entire span.
3. Brief the method of consistent deformation for the analysis of a propped cantilever.

Unit II

1. What are the uses of influence lines?
2. State Muller Breslau's principle.
3. What is meant by Begg's deformeter?

Unit III

1. What are the advantages of three hinged semi circular arch?
2. How do you do account settlement effects in arches?
3. Name the two methods available for the analysis of two hinged arches.

Unit IV

1. Write the advantages of slope deflection method.
2. Write the support reactions induced in a fixed beam when one of its supports sinks.
3. Distinguish between Sway type and Non-sway type problems.

Unit V

1. What is meant by the term Carry over factor?
2. What are the conditions in which a frame is subjected to sway?
3. What is meant by distribution factor?