**BIJU PATNAIK INSTITUTE OF TECHNOLOGY MOTTO, PURI**

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ANALYSIS OF STRUCTURE

1.What is statically determinate structure and indeterminate structure ?

2.What do you mean by elastic curve of a flexural member ?

3.What are advantages of method of sections over method of joints ?

4.Write down the equation for maximum deflection of a simply supported beam with a central point load W .

5.Write down the differential equation for the deflected shape of a beam.

6.Write down the effective length of columns having different end conditions.

7.What is carry over factor ?

8.Determine the maximum slope and deflection for a simply supported beam of length L carrying a uniformly distributed load of W per unit run for entire span.

9.A cantilever of length ‘L’ carrying a uniformly distributed load of w per unit run is propped at the free end.If the prop holds the end at the level of the fixed end. find the reaction of prop.