

PIMPRI CHINCHWAD EDUCATIONAL TRUST'S

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH

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Department of	Civil	Engin	eering
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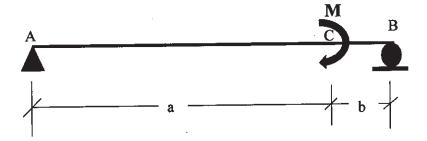
Unit 1		
Question Bank	Structi	

tructural Analysis – I

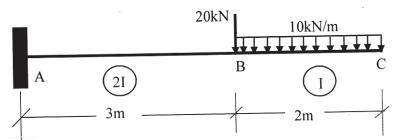
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Q.N. 1 Derive equation to determine slope at 'A' by Macaulay's method. 'El' is constant. [L=a+b]



Q.N. 2 Find slope and deflection at point 'B' for cantilever beam by conjugate beam method.



- Q.N. 3 A cantilever beam is subjected to uniformly distributed load 10 kN/m on entire span of 2 m; determine maximum slope and deflection in terms of EI.
- Q.N. 4 Determine the static and kinematic indeterminacy of simply supported beam, propped cantilever and fixed beams.
- Q.N. 5 State and explain static and kinematic indeterminacy. Determine the static and kinematic indeterminacy for the beam shown in Fig.

