



Shobhit University

Shobhit Institute of Engineering & Technology
Established on 1st March, 1998

Meerut, India

Board of Distance Education
Khanpur Road, Meerut

NAME	ROLL NO.	DATE	MARKS
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MARKS OF EXAMINATION

Sl. No.	Question	Max. Marks	Obtained Marks	Grade
1	Q1. a) Define the following terms: i) Stress ii) Strain	10	10	B
2	Q1. b) A bar of length 2m and diameter 20mm is subjected to a tensile load of 10kN. Calculate the elongation of the bar.	10	10	
3	Q2. a) A cantilever beam of length 3m is fixed at one end and free at the other. It is subjected to a uniformly distributed load of 1kN/m. Calculate the maximum deflection.	10	10	
4	Q2. b) A simply supported beam of length 4m is subjected to a point load of 10kN at its center. Calculate the maximum deflection.	10	10	
5	Q3. a) A beam of length 5m is fixed at one end and free at the other. It is subjected to a uniformly distributed load of 1kN/m. Calculate the maximum deflection.	10	10	
Total		50	50	
6	Q4. a) A cantilever beam of length 3m is fixed at one end and free at the other. It is subjected to a uniformly distributed load of 1kN/m. Calculate the maximum deflection.	10	10	B
7	Q4. b) A simply supported beam of length 4m is subjected to a point load of 10kN at its center. Calculate the maximum deflection.	10	10	
8	Q5. a) A cantilever beam of length 3m is fixed at one end and free at the other. It is subjected to a uniformly distributed load of 1kN/m. Calculate the maximum deflection.	10	10	
9	Q5. b) A simply supported beam of length 4m is subjected to a point load of 10kN at its center. Calculate the maximum deflection.	10	10	
10	Q6. a) A cantilever beam of length 3m is fixed at one end and free at the other. It is subjected to a uniformly distributed load of 1kN/m. Calculate the maximum deflection.	10	10	
Total		50	50	
Grand Total		100	100	

Signature of Candidate: _____ Date: _____
 Signature of Examiner: _____

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