

P P SAVANI UNIVERSITY

First Semester of B. Id Examination

Jan 2023

SDID1550 Basic of Structure

12.01.2023, Thursday

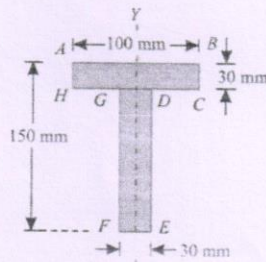
Time: 10:00 a.m. To 12:00 p.m.

Maximum Marks: 40

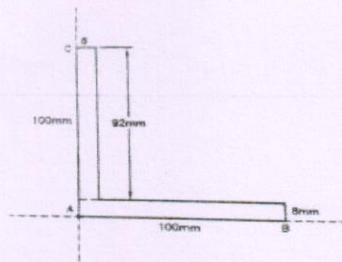
Instructions:

1. Write main answer sheet no. in your block report under main supplementary.
2. Read instructions carefully before starting.
3. All construction lines must be clearly visible for drawing based answers.
4. Use proper intensity of lines in drawings. Neatness of drawing and lettering is important.
5. Assume suitable data where necessary.
6. Data given and assumed, in questions must be mentioned in the answers.

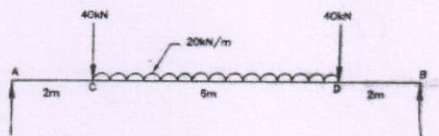
- Q - 1 Write down any four from the followings. [24] CO BTL
- | | | | |
|----|--|---|---|
| 1. | Explain relationship between Architecture form and structure form? | 1 | 1 |
| 2. | What is Treatment of Form in Structural Engineering? | 1 | 1 |
| 3. | What are the structural and architectural concepts for designing bridges? | 2 | 2 |
| 4. | Describe Concept of Architects and Structural Engineers to Present challenges? | 2 | 2 |
| 5. | What are the structural and architectural concepts for designing tall buildings? | 2 | 2 |
- Q - 2 Calculate any two from the followings. [16]
1. Calculate C.G for the given section. 2 5



2. Calculate C.G for the given section. 2 5

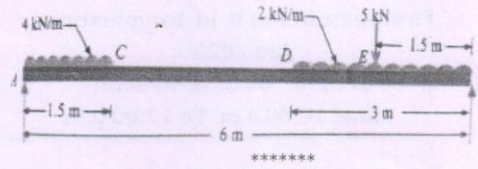


3. Calculate Support reactions for the given beam 2 5



4. Calculate Support reactions for the given beam

2 5



CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create