

[E]

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
SECOND SEMESTER M.TECH. DEGREE EXAMINATION, APRIL 2018

CIVIL ENGINEERING

(Computer Aided Structural Engineering)

**10CE6126: HIGH RISE STRUCTURES**

Max. Marks : 60

Duration: 3 Hrs

**Part A (Modules I - II)**

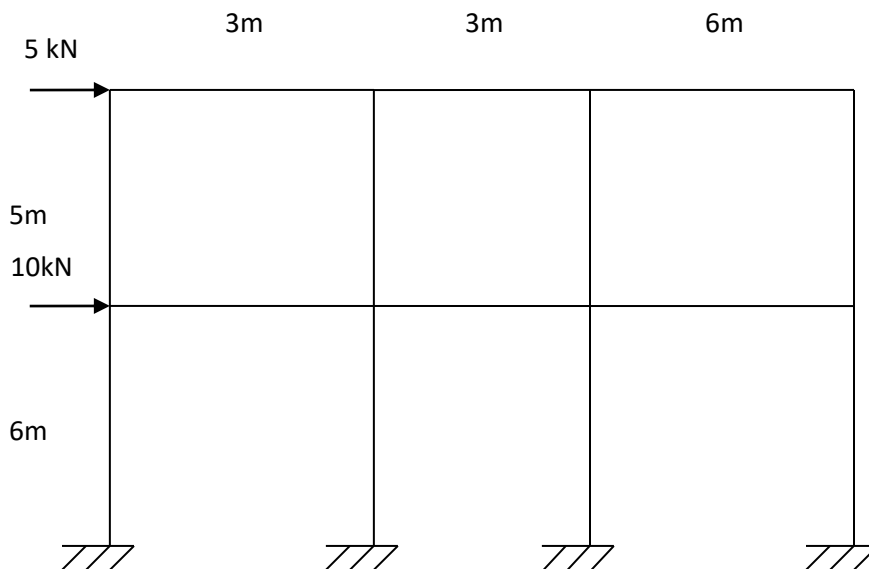
(Answer any two questions:  $2 \times 9 = 18$  Marks)

1. Write a note on
  - a) Wind loading 5 Marks
  - b) Sequential loading. 4 Mark
2. Explain the wind tunnel experimental method 9 Marks
3. Detail the factors affecting the growth of high rise buildings? 9 Marks

**Part B (Modules III - IV)**

(Answer any two questions :  $2 \times 9 = 18$  Marks)

4. Analyze the frame using Cantilever Method?



9 Marks

5. Explain the behavior of braced bents? 9 Marks
6. Explain the various drift components? 9 Marks

**Part C (Modules V & VI)**

*(Answer any two questions : 2 x 12 = 24 Marks)*

7. Differentiate between Shear Wall and Coupled Shear Wall? 12 Marks
8. Explain the Core structures with figures? 12 Marks
9. What are the different types of Tubular structures? 12 Marks