Total No. of Questions – []

Total No. of Printed Pages:
P118-113 (T1)

G.R. No.	

OCTOBER 2018 / IN - SEM (T1)

F. Y. M. TECH. (STRUCTURES) (SEMESTER -I)

COURSE NAME: PLASTIC ANALYSIS OF STEEL STRUCTURES

COURSE CODE: CVPB11183A

(PATTERN 2018)

Time: [1 Hour] [Max. Marks: 20]

(*) Instructions to candidates:

1) **Answer Q.1 OR Q.2, Q.3 OR Q.4**
2) **Figures to the right indicate full marks.**
3) **Use of scientific calculator is allowed**
4) **Use suitable data where ever required**

Q.1) An unsymmetrical frame is loaded as shown in Fig. 1. Analyze the frame for M_P and draw bending moment diagram. [10 marks]

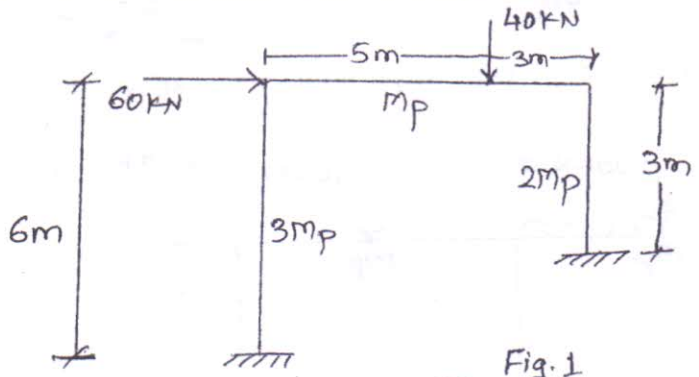

Fig. 1

OR

Q.2) Find the collapse mechanism for the portal frame shown in Fig. 2. Draw BMD. [10 marks]

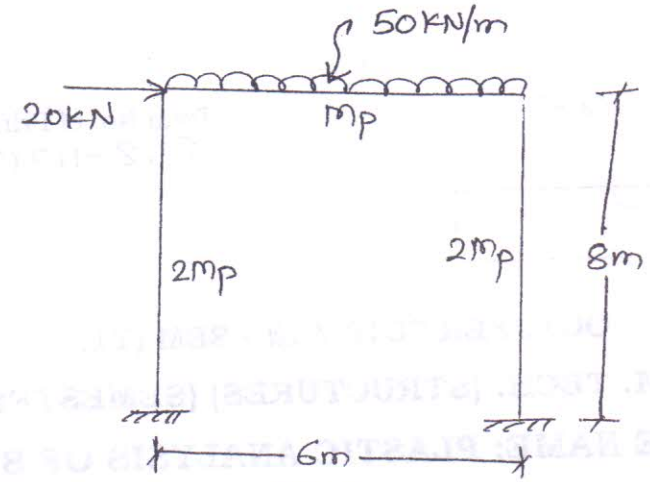

Fig. 2

Q.3) Find the collapse mechanism for the two story portal frame as shown in Fig. 3. [10 marks]

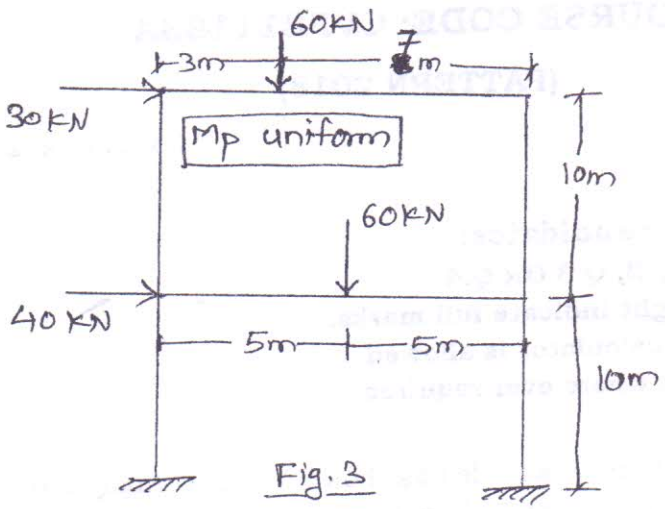

Fig. 3

OR

Q.4) Find the collapse mechanism for the two bay portal frame as shown in Fig. 4. [10 marks]