USN

09ENG45

Fourth Semester B.Arch. Degree Examination, Dec.2019/Jan.2020

Structures - IV

Time: 3 hrs. Max. Marks:100

Note: ***Answer any FIVE full questions.***

1 Determine the reaction components in the propped cantilever shown in Fig Q1.

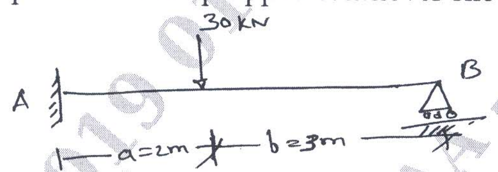

Fig Q1

(20 Marks)

2 Determine the fixed end moments developed in beam shown in Fig Q2

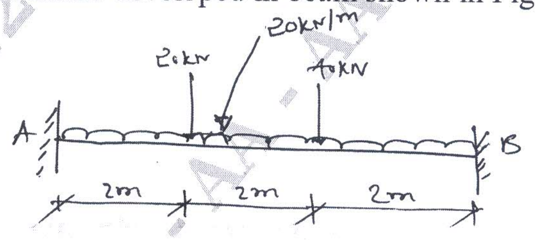

Fig Q2

(20 Marks)

3 The beam AB of span 6m is subjected to a uniformly distributed load of intensity 30kN/m as shown in Fig Q3. Determine fixe end moment developed.

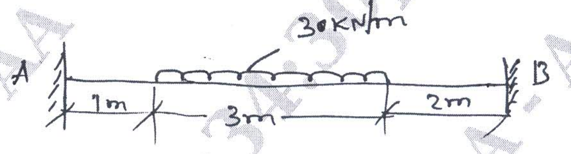

Fig Q3

(20 Marks)

4 Analyse the two span continuous beams shown in Fig Q4, using three moment theorem draw BMD.

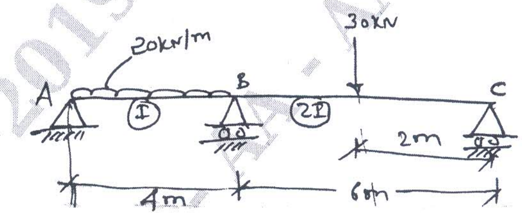

Fig Q4

(20 Marks)

5 Anayse the continuous beam shown in Fig Q5 by using three moment equation and draw bending moment diagram.

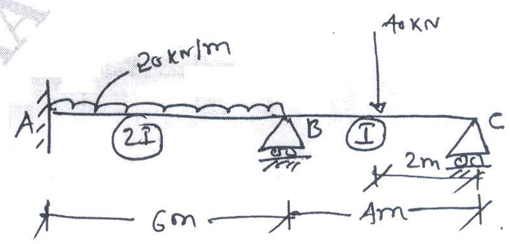

Fig Q5

(20 Marks)

6 Determine the suppose moments in continuous beam by using three moments equations shown in Fig Q6. Draw BMD.

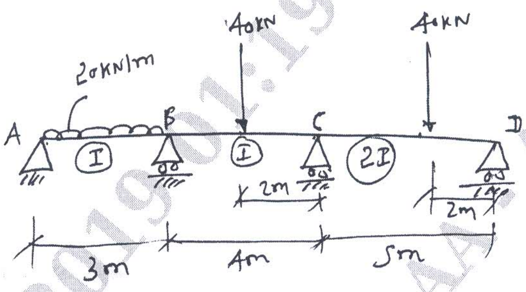

Fig Q6

(20 Marks)

7 Anayse the continuous beam shown in Fig Q7 and draw BMD by moment distribution method.

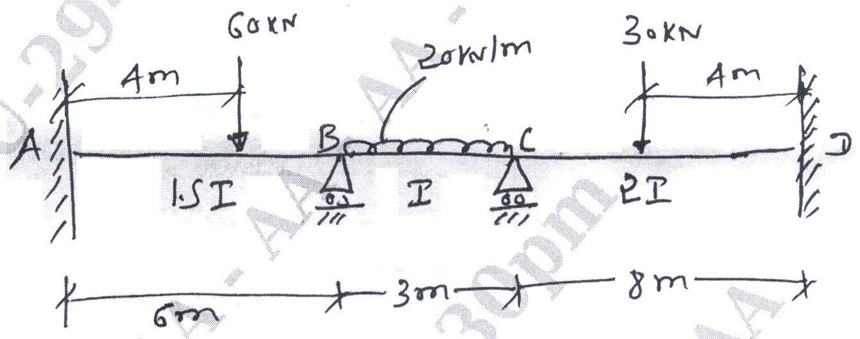

Fig 7

(20 Marks)

8 Analyse the symmetric portal frame shown in Fig Q8 by moment distribution method.

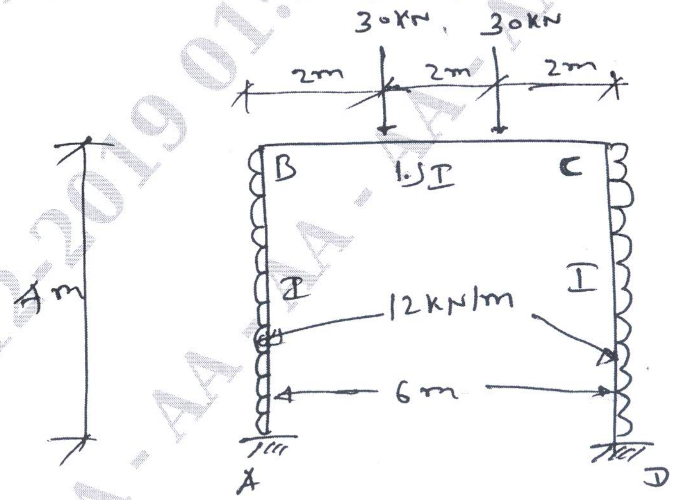

Fig Q8

(20 Marks)

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