

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- February 2018

B. Tech. 2<sup>nd</sup> Semester

COURSE CODE: 10B11CE211

MAX. MARKS: 15

COURSE NAME: ENGINEERING MECHANICS

COURSE CREDITS: 04

MAX. TIME: 1.0 Hrs

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Assume any missing data suitably.*

1. Find reactions at the supports (at point A and B) in the beam as shown in Fig. 1. [4]
2. Draw shear force diagram and bending moment diagram for the beam as shown in Fig. 2. [5]
3. Analyze the beam as shown in Fig. 3; and draw shear force diagram and bending moment diagram. [6]

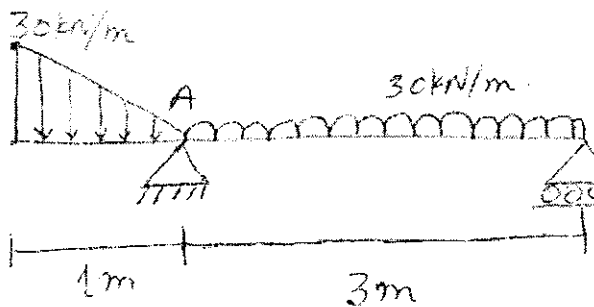


Fig. 1

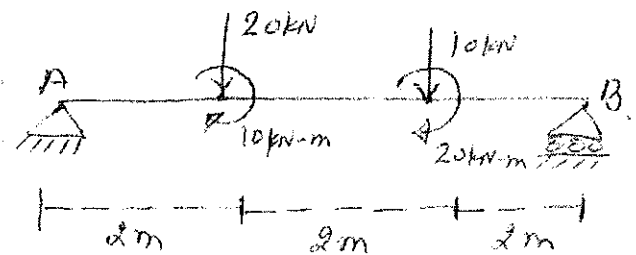


Fig. 2

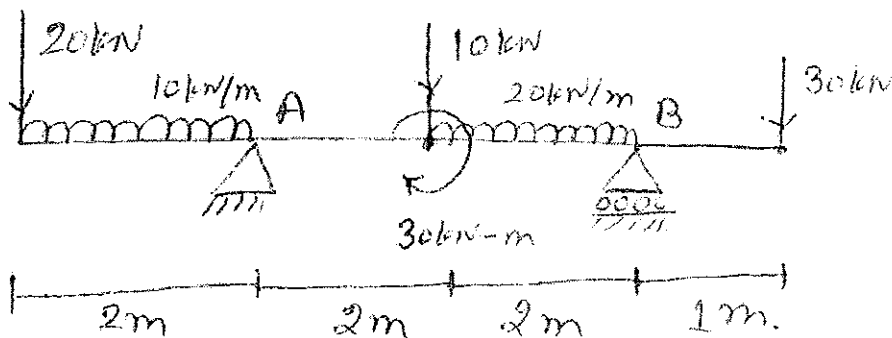


Fig. 3