Total No. of pages 02 IV th SEMESTER

Roll No._____

B.Tech. [Environmental Engg.]

Branch/ Group code

MID SEMESTER EXAMINATION MARCH 2019

CE252

Structural Analysis

Paper Code

Title of the Subject

Time: 11/2 Hours

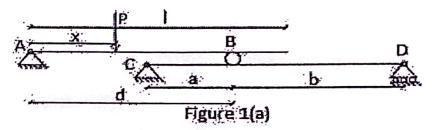
Max. Marks: 25

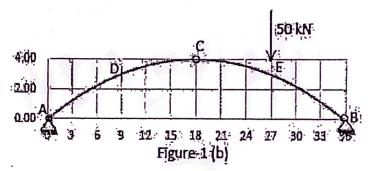
Note:

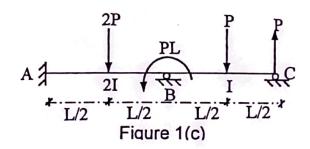
Answer all questions. All questions carry equal

marks. Assume suitable missing data if any.

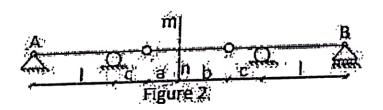
Q1 Determine SDI and KDI for the structures shown in figure 1(a) to figure 1(c) below.(Attempt any two)



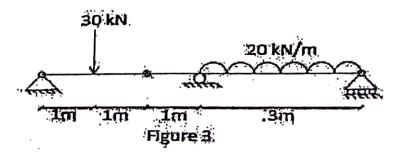




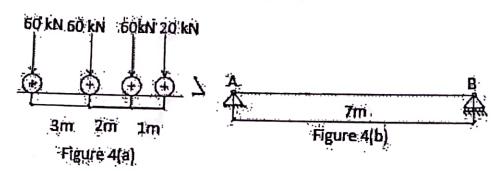
Q2 Draw the ILD for the SF and BM at the given section for the beam shown in figure 2 below using Müller Breslaü Principle. Specify the ordinates at suitable locations.



Q3 Draw the SFD and BMD for the beam shown in figure 3 below.



Q4 Determine the absolute maximum BM any where in the span, for travel of the given train in the beam as shown below.



O5 Draw the maximum +ve SF envelope for the travel of udl of length 'd' shorter than the span in a simply supported beam. Take L > 2d.