

## GOVERNMENT COLLEGE OF ENGINEERING, YAVATMAL. (Naringe Nagar, Dhamangaon Road Yavatmal.445001) (Affiliated to Dr. BabasahebAmbedkar Technological University, Lonere) MID-SEM Examination (Odd-2022-23)

## Branch:-CIVIL

Course Code :,BTCVC503 Time : 01.00 Hour

: 01.00 Ho : 5th Course Name: Structural mechanics - II

Date: 19/10/2022

Semester Instructions:

Instructions:

1) All questions are compulsory.

2) Illustrate your answers with neat sketches wherever necessary.

3) Figures to the right indicate full marks. 4)Use of non-programmable calculator is permissible.

5) Assume suitable data if necessary.

		Attempt any TWO of the following	08	C Os
•	а	A beam CD cattlesa concentrated Joad of 30 km at the centre having spon equal to 7.5 m. Deaw ILD & defermine the teachions.  30km  15  16  27.5m  7.5m	04	
Q	ь	B A suspension cable is suspended at the same level 100 m apart. It consies a udil 15 knim horizontal. Determine the minimum central dip if the maximum tension in the cable is limited to 1200 kn.  936.75	04	C
	С	@ A beam CD is Loaded with udl of 30km/m eyes the whole span of &m. Find the exactions of the sure		
		Span of 6m. Find the reactions at the supports using ILD	04	
	a	Attempt any ONE of the following  Defermine the horizontal displacement of the joint of the pin jointed frame as shown in fig. 6 for 700 mm <sup>2</sup> . Assume E = 200 km km <sup>2</sup> of AC 2	04	

