



BT* Bloom's Taxonomy, L* Level; CO* Course Outcome; PO* Program Outcome

Fig. 3 (b)

Off- Campus Centre of Nitto (Dogmod to be University)

Fig. 1 (b)	12 N 20° 30° 20° N 20 N		shown in Fig. 4 (b).	4. a) State and pr b) Sketch the i triangular pla	 a) Explain free body diagram with an example. b) Determine the reactions at contact points of two smooth spheres A and B resting in a rectangular trench as shown in Fig.3 (b) having radius 100 mm and 50 mm respectively and weighs 300 N and 150 N respectively. 		 2. a) Distinguish coplanar and non-coplanar force system with examples. b) Determine the magnitude of unknown force and resultant force in a system of force as shown in Fig.2(b) whose resultant is a horizontal force. 		Explain the foll i) Environment b) Determine the force system a		<u>n</u>	I Sem B.T Duration: 1 Hour	
	0 20° 100 N 40° 25 N × axis	Yaxis 8 N	State and prove Varignon's theorem. Sketch the resultant of force system acting on the equilateral triangular plate element of side 4m with respect to point B as shown in Fig. 4 (b).								Note: Answer any One full question from each Unit. Unit - I Mar	CV1001-1 - ELEMENTS OF CIVIL ENGINEERING	Off- Campus Centre of Nitte (Deemed to be University) Sem B.Tech. (CBCS) Mid Semester Examinations - I, September 2022
Fig. 2 (b)	Yaxis Yaxis	Yaxis									ach Unit. Marks	RING	Universi
	1.		06 L	04	06	04 _	06 L	04 -	06 L	04 L*2	ks BT*		tembe
	1 1		<u>L3</u>	ຜ	ω	2	ಒ	2	L3	13		Max.	r 202
			2	N	2	2		_	_	_	CO,	Max. Marks: 20	2
			1,2	1,2	1,2	_	1,2	_	1,2	_	PO*	: 20	

