## CBCS SCHEME

### First Semester B.E Degree Examination\_\_\_\_\_

#### **Introduction to Civil Engineering (BESCK104A)**

TIME: 03Hours Max.Marks:100

#### **NOTES:**

- 1. Answer any FIVE full questions, choosing at least ONE question from each MODULE.
- 2. VTU Formula Hand Book is permitted.
- **3.** M M arks, L B loom's L evel, C C ourse O utcomes

Q No.		Module - 1	M	L	C
Q.1	0	Explain scope of the following branches of Civil Engineering Disciplines	10	L2	CO1
Q.1	a	i) Structural Engineering	10		COI
		ii) Construction Planning and Project Management			
	b	Explain the following building materials along with their application in	10	L2	CO1
		construction	10		COI
		i) Cement Mortar			
		ii) Pre-Stressed Concrete			
OR					
0.2		Explain scope of the following branches of Civil Engineering Disciplines	10	L2	CO1
Q.2	a	i) Environmental Engineering	10		COI
		ii) Hydraulics and Water Resource Engineering			
	b	Explain the following structural elements of a building with their	10	L2	CO1
		functions	10		COI
		i) Masonry Wall			
		ii) Staircase			
Module – 2					
Q.3	a	Define Sustainable Development Goals. List and explain the various	10	L2	CO2
		goals of sustainable development set by United Nations.			
	I.	Explain the causes of Urban Floods. List the remedial measures to	10	L2	CO2
	b	control urban floods.	10	LZ	COZ
OR					
Q.4	a	Explain different methods to manage the solid waste in Urban Areas.	10	L2	CO <sub>2</sub>
	L	Explain the methods to control sound and temperature to create a	10	L2	CO2
	b	conducive atmosphere in a building.	10		CO2
Module – 3					
Q.5	a	State and Prove Parallelogram Law of Forces.	10	L2	CO3
	b	Determine the resultant of a given system of force Fig.5(b) about point A	10	L3	CO3



