

## Model Question Paper (CBCS 2022 Scheme)

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### Sixth Semester B.E. Degree Examination

#### Alternative Building Materials

TIME: 03 Hours

Max. Marks: 100

Note: Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Explain the recycling process of Industrial and building wastes	L2	CO 1	10
	b	Explain about carbon emission & waste disposal	L2	CO 1	10
OR					
Q.02	a	Explain biomass resources for buildings	L2	CO 1	10
	b	Explain about Embodied energy in building materials	L2	CO 1	10
<b>Module-2</b>					
Q. 03	a	Explain the characteristics of building blocks, with example	L2	CO 2	10
	b	Explain briefly the various factors affecting the compressive strength of masonry	L2	CO 2	10
OR					
Q.04	a	Explain the characteristics of mortar with Example	L2	CO 2	10
	b	List and explain the properties of good mortar	L2	CO 2	10
<b>Module-3</b>					
Q. 05	a	Explain the different types of polymers used in Fibre reinforced polymers. Explain any two	L2	CO 3	10
	b	Explain the different types of industrial waste used in construction with two examples	L2	CO 3	10
OR					
Q. 06	a	Explain the different types of agro waste used in construction with two examples	L2	CO 3	10
	b	Explain Fibre reinforced cement, composition and properties.	L2	CO 3	10
<b>Module-4</b>					
Q. 07	a	Explain the Alternative roofing systems and its Concepts	L2	CO 3	10
	b	Explain the different types of alternatives for wall construction, types and construction methods	L2	CO 3	10
OR					
Q. 08	a	Explain the advantages and disadvantages of Mivan Construction Techniques	L2	CO 3	10
	b	Explain ferro cement/concrete building components materials & specification along with its properties.	L2	CO 3	10
<b>Module-5</b>					
Q. 09	a	Discuss the different types of moulds and methods of production of precast elements.	L2	CO 4	10
	b	Differentiate between conventional and alternative building materials	L2	CO 4	10
OR					

Q. 10	a	Explain about the Equipment's used for production of stabilized blocks	L2	CO 4	10
	b	Explain i) Types of machines used for manufacturing of concrete ii) Cost concept in buildings	L2	CO 4	10