



R20 Regulation **Subject code: 3P3AB**
TKR COLLEGE OF ENGINEERING AND TECHNOLOGY
 (Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech III Semester Supplementary Examinations, February 2024

BUILDING MATERIALS, CONSTRUCTION & PLANNING
(CIVIL ENGINEERING)

Maximum Marks: 70

Date: 19.02.2024 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(10X2M=20 Marks)	CO	Bloom Tx
1	Differentiate between natural and artificial seasoning.		CO1	L2
2	List out the types of rocks		CO1	L1
3	Define admixture and give two examples of admixtures.		CO2	L2
4	Name some tests conducted on cement?		CO2	L1
5	What is meant by lintel?		CO3	L1
6	Write short notes on fire protection.		CO3	L2
7	Write short note on types of roof		CO4	L2
8	What Is cladding ?		CO4	L1
9	Explain about floor area ratio?		CO5	L2
10	Draw a two room building plan?		CO5	L3

Part-B

Answer All the following questions. (10M X 5=50Marks)

11	Explain briefly the different steps adopted in manufacture of Good bricks.	10M	CO1	L2
OR				
12	(a) What is preservation of timber? (b) Explain briefly the various timber preservation methods and treatment processes.	5M 5M	CO1	L1 L2
13	(a) List the type of cement? (b) Explain the method of manufacture of cement (OPC)?	5M 5M	CO2	L1 L2
OR				
14	(a) Explain the chemical composition of cement? (b) Explain the function of admixtures?	5M 5M	CO2	L2 L2
15	Describe types of the foundations and explain with neat diagrams?	10M	CO3	L4

	OR			
16	(a) With neat sketches explain different types of arches? (b) Mention the different types of roofs?	5M 5M	CO3	L3 L2
17	(a) Mention the objects of providing pointing and plastering to expose to surfaces. (b) Explain about pointing? How is it carried out? What are its different types?	5M 5M	CO4	L2 L2
	OR			
18	(a) Explain various uses of cement mortar. (b) List out type of brick bonds and explain any one with neat sketch.	5M 5M	CO4	L2 L3
19	(a) Explain the classification of building and building by laws? (b) Explain the parking requirement development as per NBC?	5M 5M	CO5	L2 L1
	OR			
20	(a) What is orientation of building? (b) Explain the principles of building planning?	5M 5M	CO5	L1 L2