



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

B.Tech III Semester Supplementary Examinations, July 2024

Building Materials Construction & Planning
(CE)

Maximum Marks: 70

Date:20.07.2024 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 which carries 10M.
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.	1	L1
2	List out the types of rocks	1	L1
3	List out the types of cement.	2	L1
4	Compare RCC and PCC	2	L1
5	Give the various failures of an Arches .	3	L1
6	List out the types of piles	3	L1
7	Define shoring and give its uses.	4	L1
8	List out types of doors and windows	4	L1
9	Classify the various types of the building	5	L1
10	Define the residential building.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)			
11	Describe the characteristics and requirements of good building stones. [10]	1	L1
OR			
12	Discuss in detail with neat sketch of manufacturing process of brick. [10]	1	L2
13	Describe with flow diagrams the dry and wet process of manufacture of cement? [10]	2	L1
OR			
14	a) Describe the action of super plasticizers. Give examples of its use. [5] b) What are the composition of cement explain? [5]	2	L2
15	How to do you classify the foundation. Explain each in detail with sketch. [10]	3	L4
OR			
16	What are the various types of roof tiles? Explain one with suitable size and shape. [10]	3	L3
17	With neat sketches explain the form work for beam and slab floor? [10]	4	L2

	OR		
18	Discuss in detail types of concrete and its advantages. [10]	4	L2
19	a) Write principles of building planning? [5] b) What do you understand by development control rules? [5]	5	L2
	OR		
20	Explain different principle used while planning dispensary in rural areas. [10]	5	L2