



R20 Regulation

Subject code: 3P3AB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

Make a Choice International in Education

B.Tech III Semester Supplementary Examinations, December 2024

BUILDING MATERIALS, CONSTRUCTION & PLANNING (Civil Engineering)

Maximum Marks: 70

Date: 04.12.2024

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	Describe the principal rock forming minerals and their properties?	1	L1
3	Define the admixture and state two examples of admixtures.	2	L1
4	Define consistency and initial setting of cement.	2	L1
5	What is meant by lintel?	3	L1
6	Write short notes on screw pile.	3	L1
7	What are the requirements of the good form work.	4	L1
8	Describe the three defects in plastering?	4	L1
9	Write about floor area ratio.	5	L1
10	Sketch a typical foundation.	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		CO	Bloom Tx
11	a) What is meant by seasoning. Discuss the methods of preserving? [5M] b) What various properties of flyash and its use. [5M]	1	L2
OR			
12	a) Describe common defects in brick. Describe the tests performed to check brick quality? [5M] b) Explain the details the process of manufacturing of glass. [5M]	1	L2
13	Describe with neat diagram the wet process of manufacture of the cement. [10M]	2	L2
OR			
14	List and explain the chemical and mineral admixtures. Mention its uses. [10M]	2	L2
15	Elaborate various types of foundations used for buildings with neat sketches. [10M]	3	L2
OR			

16	a) What is damp proof course. Why they are provided in building? [5M] b) Mention different types of arches? [5M]	3	L2
17	With neat sketches explain the form work for beam and slab floor?[10M]	4	L2
OR			
18	a) Discuss any one type of the stone masonry with neat sketch. [5M] b) Explain about the properties and advantages of aluminum composite panel. [5M]	4	L2
19	Explain various practical points to be considered while planning a building? [10M]	5	L2
OR			
20	Classify the building. Explain [10M]	5	L2