

School of Civil Engineering

Civil Engineering
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem IV - G1UA401C / BCE01T3402

Construction Engineering

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

1. What do you mean by setting time of cement K2 CO2 (5)
2. Discuss in detail the various principles for planning the building. K2 CO2 (5)
3. What is brick masonry? K1 CO1 (5)
4. What are vogue compounds? Explain their role in setting and hardening process of Portland cement. K3 CO3 (10)
5. Explain types and methods of curing. K2 CO2 (10)
6. Define terms : a. bleeding. b. segregation c. Define the term frog K3 CO3 (10)
- 7) Write short notes on: a) Soundness test of cement b) Tensile strength test of cement K4 CO4 (10)

OR

- Explain about characteristics of good bricks. What test are to be made on bricks explain any three of them K4 CO4 (10)
8. Explain about seasoning of timber and objects of seasoning of timber. Describe timber moisture test. K5 CO5 (15)
 9. Define the terms in masonry:
1) Header, 2) Stretcher, 3) Course, 4) Facing, 5) queen closer, 6) King closer, 7) Jams K4 CO4 (15)
 - 10) Briefly describe the following test on stones: (a) crushing strength test (b) water absorption test K5 CO5 (15)

OR

- Explain about all types of roofs with neat sketches. K5 CO5 (15)