

Course: B. Tech.

Branch: Civil Engineering

Semester: VII

Subject Code & Name: BTCVE705A Construction Techniques

Max Marks: 60

Date: 27/08/2022

Duration: 3.45 Hrs.

Instructions to the Students:

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

(Level/CO) Marks

Q.1 Solve Any Two of the following.

- A) Explain the parameters involved in the planning of new project. (CO1) 6
- B) Illustrate mechanical and manual construction. (CO2) 6
- C) Explain earthmoving equipment. (CO2) 6

Q.2 Solve Any Two of the following.

- A) Explain excavation in hard rocks. (CO2) 6
- B) Explain various drills in excavation. (CO2) 6
- C) Discuss the necessity of drainage in excavation. (CO2) 6

Q.3 Solve Any Two of the following.

- A) Draw layout of RMC plant. (CO3) 6
- B) Explain underwater concreting. (CO3) 6
- C) Explain slip formwork. (CO3) 6

Q.4 Solve Any Two of the following.

- A) Illustrate field operations involved in steel construction. (CO3) 6
- B) Describe dredging equipment. (CO2) 6
- C) Discuss various aspects involved in road construction. (CO4) 6

Q.5 Solve Any Two of the following.

- A) Discuss various aspects involved in bridge construction. (CO4) 6
- B) Explain construction method of diaphragm walls. (CO4) 6
- C) Describe safety measures in construction. (CO4) 6

*** End ***