

**ODD SEMESTER EXAMINATION-2019 (Back Paper)**

Subject Code: TCE 302

Total no. of printed pages: 2

Roll No.

--	--	--	--	--	--	--	--	--	--

**B.Tech. Civil Engineering (Semester-III)**  
**Building Materials and Construction**

Time: 3:00 hrs.

Max. Marks: 100

---

1. Attempt any 4 of the following:

[4x5=20]

- Explain the qualities of a good timber.
- Explain with neat sketches types of pointing.
- What qualities in bricks are essentially required from construction point of view?
- Compare framed structure and load bearing structure.
- Write about various laboratory tests for cement

2. Attempt any 4 of the following:

[4x5=20]

- Explain brick manufacturing process in detail.
- What is seasoning of Timber? Explain defects due to seasoning.
- Comment, with relevant examples, various metal and non-metal products used in construction.
- Define Plastering? Give its types, explain the procedure of plastering on new surface.
- Explain how the fineness modulus of coarse and fine aggregate is determined.

P.T.O

3. Attempt any 4 of the following:

[4x5=20]

- a) List out different types with paints. Explain with sketches various defects in paints.
- b) Discuss the physical properties of cement.
- c) List down various types of flooring. Explain floor finishes and its suitability.
- d) Write the different type of lime.
- e) Describe the geological classification of rock.

4. Write short note on any four:

[4x5=20]

- 
- a) Water proofing materials.
  - b) Varnishes-types and uses.
  - c) Glass fiber reinforced plastic.
  - d) Cement types and its uses.
  - e) Types of foundation.
  - f) Centering and shuttering.

5. Attempt any 4 of the following:

[4x5=20]

- a) What are the qualities of good building stones? Discuss them.
  - b) Discuss the general principles in Brick Masonry Construction?
  - c) Discuss the advantages of flat roof over sloped roof.
  - d) What do you understand by the term Damp proof course?
  - e) List out the constituents of limestone. Explain the importance of each.
-