

TCE-302

1081

Odd Semester Examination 2018-19

B.TECH.(CE) (SEMESTER-III)

BUILDING MATERIAL AND CONSTRUCTION

Time: 03:00 Hours

Max Marks: 100

Note: Attempt all questions. All questions carry equal marks.

Q1. Attempt any four of the following:

(5x4=20)

- (a) Write the economics of Building Materials.
- (b) Write short notes on preservation of Stones.
- (c) Discuss the different methods of seasoning of timber.
- (d) Give important characteristics of plastic.
- (e) Compare stone & brick masonry.
- (f) List various types of painting.

Q2. Attempt any four of the following:

(5x4=20)

- (a) Write down general rules for natural ventilation.
- (b) Compare steel roof trusses and timber roof trusses.
- (c) Classify various types of lintels & discuss their relative use.
- (d) List various causes of dampness in building.
- (e) Define Gypsum. Write the Building Products of Gypsum.
- (f) Write short note on building maintenance.

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Q3. Attempt **any two** of the following: (10x2=20)

- (a) Explain the term scaffolding. Write the essential requirements of it. List the components part of a scaffold.
- (b) Classify with the help of sketches various types of doors.
- (c) Draw plan & section of a typical dog legged stair.

Q4. Attempt **any two** of the following: (10x2=20)

- (a) Describe the four common defects in timber.
- (b) Explain the procedure of painting on wood surface, iron and steel surface.
- (c) Discuss the desirable characteristics of reinforcing steel. Compare cold and hot working of steel.

Q5. Attempt **any two** of the following: (10x2=20)

- (a) Compare the cavity wall, hollow block and waffle slab construction.
- (b) Write a detail notes on Heating, Ventilation and Air conditioning
- (c) Explain the methods of damp proofing and termite treatments.

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