

320415 (20)

BE (4th Semester)

Examination, April - May, 2021

Branch : Civil

BUILDING CONSTRUCTION

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Part 'a' is compulsory and attempt any two parts from rest in each question.

UNIT - I

- Q. 1.** (a) Define black cotton soil. **2**
- (b) Describe the characteristics of cohesive soils by atleast 10 points. **7**

(2)

- (c) How you will differentiate between expansive and non expansive soil ? 7
- (d) What are the reasons of failure of foundations and give their remedial measures. 7

UNIT - II

- Q. 2. (a) Define the following : 2
- (i) Header
- (ii) Strecher
- (b) Discuss various types of bonds in brick masonry. Which bond is normally used in construction and why ? 7
- (c) Enumerate various types of partition walls. Give sketch of cavity wall. 7
- (d) Describe in detail about the components of doors and windows. 7

(3)

UNIT - III

- Q. 3.** (a) Enumerate various types of flooring materials. 2
- (b) Explain the construction of terrazzo floors with sketch. 7
- (c) Illustrate about the various roof covering for pitched and flat roofs. 7
- (d) Give plan and cross section of 30×50 cms cross section, rectangular column cross section with detailed sketch. 7

UNIT - IV

- Q. 4.** (a) List various causes of dampness in building. 2
- (b) Write short notes on : 7
- (i) Plastering
- (ii) Pointing

(4)

- (c) Discuss construction, contraction and expansion joints their purpose and method. 7
- (d) Describe method of damp proofing for foundations and floors. 7

UNIT - V

- Q. 5. (a) What do you mean by proportioning of stairs ? 2
- (b) Discuss about the materials and methods of fire proof construction. 7
- (c) Discuss about the materials and methods of sound proof construction. 7
- (d) Explain doglegged stair with neat sketches giving plan and section elevation. 7