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320455(20)

B. E. (Fourth Semester) Examination, April-May 2020

(New Scheme)

(Civil Engg. Branch)

BUILDING CONSTRUCTION

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attempt any **two** parts from (b), (c) and (d) which carry 7 marks each.*

Unit-I

1. (a) What is the purpose of foundation?   2

   (b) What are the different causes of failure of foundation?   7

(c) Explain the comparative advantages and dis-advantages of casts-in-situ and pre-cast piles.   7

(d) Draw neat sketch of pier foundation and why and where it is provided.   7

Unit-II

2. (a) What is Brick Masonry?   2

(b) What is stone masonry, draw neat sketch and explain uncoursed random rubble masonry?   7

(c) What are the advantages of providing cavity wall, explain the reasons of providing cavity in wall with neat sketch.   7

(d) Draw neat sketch of fully panelled door, label its various components.   7

Unit-III

3. (a) What are the essential requirements of flow?   2

(b) What is flag stone flooring, draw neat sketch? What are its advantages & disadvantages?   7

(c) What is Roof? What are its various types, explain with neat sketches?   7

(d) What are the various requirements of good form work?   7

Unit-IV

4. (a) Define the term Pointing.   2

(b) What do you mean by damp proofing? What are the requirements of a good damp proofing material?   7

(c) Explain with neat sketch method of D.P.C. for roof.   7

(d) Explain in detail various defects occur in plastering work.   7

Unit-V

5. (a) What do you understand by Staircase?   2

(b) What are the requirements of good acoustic material?   7

(c) What do you understand by proportioning of stairs?   7

(d) Differentiate between :

Dog legged and Open newel stair.   7