

Roll No.

3025

**B. Tech. 3rd Semester (Civil Engg.)
Examination – February, 2022
INTRODUCTION TO CIVIL ENGINEERING**

Paper : PCC-CE-201C

Time : (Three hours)

(Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Section. Question No. 1 is *compulsory*. All questions carry equal marks

1. Write short notes on the following: 6 × 2.5 = 15
- (i) Briefly describe the dressing of stone.
 - (ii) Explain location of doors and windows.
 - (iii) What do you understand by a water proof plaster?
 - (iv) Define fire hydrants.
 - (v) Differentiate between Acoustic and sound insulation.
 - (vi) State under what condition well foundation and Raft foundation are adopted.

3025-1750-(P-3)(Q-9)(22)

P. T. O.

SECTION - A

2. (a) What is importance of Civil Engineering for the development of country ? Also explain history in early construction. 7.5
- (b) What is the basic concept of green building ? Explain the various methods also. 7.5
3. (a) What is the significance of bonding in a brick work ? 7.5
- (b) Name the various type of Ashlar masonry. Describe in brief the construction of wall with Ashlar fine masonry. 7.5

SECTION - B

4. (a) What do you mean by quarrying of stones ? 7.5
- (b) Discuss the manufacturing process of tiles. 7.5
5. (a) Explain the term : Decay in timber and seasoning of timber. 7.5
- (b) What are the constituent or ingredients of an oil paint ? Describe the role of each constituent in the painting process. 7.5

SECTION - C

6. (a) Describe the different types of flooring that are normally adopted in modern building. Also state the merits and demerits of each type. 7.5

3025-1750-(P-3)/(Q-9/22) (2)

- (b) Discuss the various factors which requires due consideration while selecting a roof covering for a building. 7.5

7. (a) Briefly explain the term Foundation. Enumerate the various types of building foundation. 7.5
- (b) Explain with the help of sketches, the details of cavity wall at the following location : 7.5
Lintel level and foundation level.

SECTION - D

8. (a) How do you grade building according to fire resistance ? 7.5
- (b) Explain various method of dam proofing. 7.5
9. (a) Explain in brief various characteristics of sound as applicable to the acoustic design of a room. 7.5
- (b) Enumerate various requirement of a good acoustic material. 7.5

3025-1750-(P-3)/(Q-9/22) (3)