Roll No.

OLE-3025

B. Tech. 3rd Sem. (Civil Engg.) Examination – April, 2021

INTRODUCTION TO CIVIL ENGINEERING

Paper: PCC-CE-201-G

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 : (any *six*)

 $2.5 \times 6 = 15$

- (i) Explains various defects in paints.
- (ii) How do you insulate wall of a room/hall against external sound ?
- (iii) Briefly describe the seasoning of stone.

OLE-3025- -(P-4)(Q-9)(21) P. T. O.

- (iv) Explain importance of location of doors and windows and their specification.
- (v) What do you understand by a water proof plaster?
- (vi) Define fire hydrants.
- (vii)State under what condition pile and mat foundations are adopted.

SECTION - A

- (a) Enumerate the various functional or basic requirements that a building should satisfy for performing its basic functions.
 7.5
 - (b) What is importance of Civil Engineering for the development of country ? Also explain history in early construction.7.5
- **3.** (a) What are the various defects in brick masonry ? 7.5
 - (b) Name the various type of Ashlars masonry. Describe in brief the construction of wall with Ashlar fine masonry.7.5

OLE-3025- -(P-4)(Q-9)(21) (2)

SECTION - B

4.	(a)	What do you mean by quarrying of stones ?	7.5
	(b)	Define terra-cotta and its types.	7.5
5.	(a)	What do you mean by Decay in Timber ? How	the
		seasoning of Timber is done naturally.	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) Discuss the various factors which requires due consideration while selecting a roof covering for a building.7.5
 - (b) Name and describe the function of the various fasteners as used for a high class building doors. 7.5
- 7. (a) Define a partition. What are its advantages? 7.5
 - (b) Briefly explain the term Foundation. Enumerate the various types of building foundation. 7.5

OLE-3025- -(P-4)(Q-9)(21) (3) P. T. O.

SECTION - D

- 8. (a) Mention the precaution that should be taken for preventing leakage from roof. What are various water proofing treatment ?7.5
 - (b) How do you grade building according to fire resistance ?7.5
- 9. (a) What is reverberation? How is reverberation time calculated ?7.5
 - (b) Mention basic requirements and condition to be fulfilled for good acoustics of an Lecture Hall. 7.5