

(b) Mention basic requirements and condition to be fulfilled for good acoustics of an auditorium. 7.5

Roll No.

3025

B. Tech. 3rd Semester (Civil Engg.)
Examination – March, 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 : $6 \times 2.5 = 15$
 - (i) Enumerate various groups in which building are divided.
 - (ii) Discuss the comparative merits of various types of building units used for masonry.

- (iii) Explain various defects in paints.
- (iv) Write a note on Fire Hazards.
- (v) How do you insulate ceiling of a room/hall against external sound ?
- (vi) Discuss various function served by foundation.

SECTION - A

- 2. (a) Enumerate the various functional or basic requirements that a building should satisfy for performing its basic functions. 7.5
- (b) What is the basic concept of green building ? Explain the various methods also. 7.5
- 3. (a) Differentiate and compare English bond and Flemish bond. 7.5
- (b) How is artificial stone prepared ? What are its different forms ? 7.5

SECTION - B

- 4. (a) How would you classify the stone for engineering works ? 7.5
- (b) Define terra-cotta and its types. 7.5
- 5. (a) Describe various defects in timber. 7.5

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

- (b) What are the objects of painting a surface ? Give the characteristics of an ideal paint. 7.5

SECTION - C

- 6. (a) What are the various types of slopping or pitched roof ? 7.5
- (b) Name and describe the function of the various fixtures as used for a high class building doors. 7.5
- 7. (a) Define a cavity wall. What are its advantages ? 7.5
- (b) Explain different types of non bearing partition wall with neat sketch. 7.5

SECTION - D

- 8. (a) Mention the precaution that should be taken for preventing dampness in the building. 7.5
- (b) What do you understand by fire-proofing and fire-protection of buildings ? 7.5
- 9. (a) What is Reverberation ? How is reverberation time calculated ? 7.5

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