Roll. No………………………… 1224031

Diploma / Integrated B.Tech 4th Semester (CE) Examination
June, 2014
Building Construction
Subject Code: CEL-042

Time Allowed: 03 hours. Maximum Marks: 100

Before answering the question paper the candidate should ensure that they have been supplied the correct question paper. Complaints in this regard, if any, shall not be entertained after the examination.

Note: Question No. 1 is Compulsory and attempt two questions from each section. All questions carry equal marks.

Supplement your answer with neat sketches.

Q1 Give brief answer to the following:
   (i) What is composite masonry?
   (ii) What do you understand by safe bearing capacity of soil?
   (iii) What is an Arcade?
   (iv) What are different types of piles?
   (v) What do you understand by orientation of a building?

SECTION A

Q2. How are building classified on the basis of their occupancy and types of construction?

Q3. What do you understand by the term foundation, state the functions served by them. Name various types of foundations used for civil structure construction.

Q4. What is the significance of bonding in bricks? Explain by sketches the difference between English Bond and Flemish Bond. Which type of bonds are used in brick flooring?

SECTION B

Q5. What are various types of flooring used for ground floor construction? What factors you will take in to account in selecting type of floor finish for ground floors?

Q6. Draw a sectional elevation and plan of a dog-legged stair for two floors of a building. Describe in detail the various constructional features of this type of stair.

Q7. Discuss in detail about the orientation and ventilation of building.