

C 59101

(Pages 2)

Name.....

Reg. No.....

**THIRD SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2009**

Civil

CE 04 304—BUILDING TECHNOLOGY

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

Support your answers with neat sketches wherever required.

Answer all questions.

1. (a) Highlight the difference and purpose of shallow foundations and deep foundations.
- (b) Explain the types of stone masonry.
- (c) State the methods of providing DPC.
- (d) Write about types of Scaffolding and its uses.
- (e) State the BIS specification for water quality of concrete.
- (f) Write about strength of concrete in compression and tension.
- (g) Explain about compaction and curing of concrete.
- (h) State the factors influencing mix proportioning in concrete.

(8 × 5 = 40 marks)

2. (a) (i) Enumerate in detail the Preliminary considerations for foundations. (8 marks)
- (ii) Describe the advantages and limitations of brick masonry. (7 marks)

Or

- (b) (i) Explain different types of bonds in brickwork. (8 marks)
- (ii) Describe corbels, cosmic and copings. (7 marks)

3. (a) Describe the various types of roofs and roof coverings. (15 marks)

Or

(b) Describe the following :—

- (i) Flooring.
- (ii) Pointing.
- (iii) Pre-cost structure.

(5 + 5 + 5 = 15 marks)

Turn over

4. (a) (i) Explain the methods to determine the compressive strength of concrete. (8 marks)
(ii) Describe the qualities of aggregates used in concrete. (7 marks)

Or

- (b) (i) Elaborate the compacting factor test and slump test. (8 marks)
(ii) Describe the factors affecting durability of concrete. (7 marks)
5. (a) Explain the following :
- (i) Cavity walls.
 - (ii) Distempering.
 - (iii) Admixtures.

(5 + 5 + 5 = 15 marks)

Or

- (b) Discuss in detail about the ingredients, properties and applications of polymer concrete. (15 marks)
[4 × 15 = 60 marks]