

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

CE 04 705 (F) – MAINTENANCE AND REPAIR OF BUILDINGS

(2004 Admissions)

Time : Three Hours

Maximum : 100 Marks

Part A

- I. (a) Explain the influence of heat in building.
- (b) What are the effects of fungus on buildings?
- (c) Explain phases of maintenance.
- (d) What are different types of cracks?
- (e) Explain mortar repair for cracks.
- (f) Explain guniting and shotereting.
- (g) Describe underpinning.
- (h) Explain flexural strengthening.

(8 × 5 = 40 marks)

Part B

- II. (a) Explain in detail the aspects of fire and fire prevention on buildings.

Or

- (b) Discuss the various environmental elements influence on buildings.

- III. (a) Explain in detail the causes and effects of cracks in buildings.

Or

- (b) (i) What are the common defects in buildings?
- (ii) How will you control and prevent the common defects in buildings.

(8 + 7 = 15 marks)

- IV. (a) Discuss non-destructive testing methods in detail.

Or

- (b) Explain in detail the techniques for repair.

- V. (a) Explain the column strengthening and beam sheal capacity strengthening.

Or

- (b) Discuss adaptive reuse of buildings and its advantages.

[4 × 15 = 60 marks]

