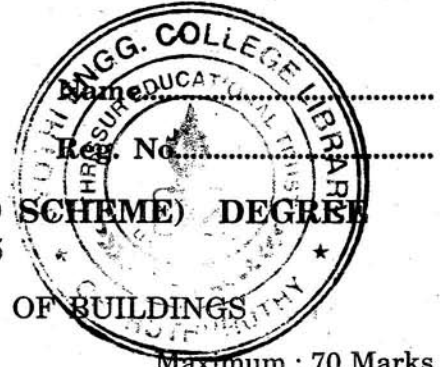


C 80771

(Pages : 2)



**SIXTH SEMESTER B.TECH. (ENGINEERING) (09 SCHEME) DEGREE
EXAMINATION, APRIL 2015**

CE/PTCE 09 L03—MAINTENANCE AND REPAIR OF BUILDINGS

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. (a) List the effects of biological agents on masonry buildings.
- (b) What are the environmental factors affecting the durability of RCC structures ?
- (c) What is underpinning ?
- (d) What is the specification for damp proof course in RCC buildings ?
- (e) What are the advantages of rehabilitation of buildings ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

2. (a) Discuss about the life expectancy of buildings.
- (b) Describe about the defects in RCC buildings due to poor workmanship.
- (c) Explain the routine maintenance of residential buildings.
- (d) Explain Pull Out Test.
- (e) Explain a method for termite proofing buildings.
- (f) What is conservation movement ?

(4 × 5 = 20 marks)

Part C

Answer all questions.

3. (a) Explain the factors affecting the durability of RCC structures.

Or

- (b) Explain the effect of environmental factors on steel structures.

4. (a) Explain strengthening of RCC buildings.

Or

- (b) Explain any *one* method for retrofitting beam-column joints in RCC structures.

Turn over

5. (a) Explain the methods and cost for maintenance of masonry buildings.

Or

(b) Explain the specifications and cost of maintenance of steel buildings against corrosion.

6. (a) Explain the properties and performance of different repairing materials.

Or

(b) Explain the recycling of buildings and its advantages.

(4 × 10 = 40 marks)