

TED (10) 5013

Reg No.....

REVISION (2010)

Signature.....

**MODEL QUESTION-SIXTH SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE
MAINTENANCE AND REPAIRS OF BUILDINGS**

(Time: 3 Hours)

(Maximum Marks: 100)

PART- A

Marks

I. Answer the following questions in one or two sentences. Each question carries 2 marks:

1. What is remedial maintenance?
2. List the principal causes of development of cracks in buildings.
3. State the defects that cause water leakage in buildings.
4. Give any two examples of air repelling chemicals used in concrete.
5. Mention the two common methods used for lifting a sunken concrete foundation. (5x2=10)

PART- B

II. Answer any five of the following. Each question carries 6 marks:

1. Explain the classification of building inspections.
2. How are vertical and horizontal cracks formed in buildings?
3. What are the precautions taken against early damage of buildings.
4. Write short notes on (i) Accelerators (ii) DPC.
5. Why and how is dadoing of bath room walls done?
6. What is delamination of concrete? How is it caused?
7. Explain the repair of a bowed wall.

PART- C

(Answer one full question from each unit. Each question carries 15 marks):

UNIT- I

- III. (1) Explain any three methods adopted for cleaning stone monuments. (6)
- (2) What are the actions taken in preventive maintenance before the commencement and during the construction of a building? (9)

OR

- IV. (1) What is meant by restoration of buildings? Explain. (6)
(2) Explain the causes of efflorescence. (9)

UNIT- II

- V. (1) How are cracks formed due to thermal movement? (6)
(2) What are the causes of development of cracks in masonry? (9)

OR

- VI. (1) What are the causes of corrosion of reinforcement? (6)
(2) How can the walls be treated for waterproofing? (9)

UNIT – III

- VII. What is meant by water leakage? What are the measures taken to avoid water leakage due to
(i) Defects in design (ii) Defects in construction. (15)

OR

- VIII. Explain the causes of leakage through RCC roofs and the remedial measures taken against it. (15)

UNIT- IV

- IX. (1) Explain how a bowed wall is repaired using carbon fibre straps. (6)
(2) Explain how wood staining is done using alcohol stains. (9)

OR

- X (1) Explain the procedure of refinishing of doors. (6)
(2) How will you repair a leaking skylight? (9)
