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Questions : 08

### B. Architecture (2012 & Onwards EL-I) (Sem.–8) BUILDING MAINTENANCE – I Subject Code : BACH-808 Paper ID : [72752]

## Time:3 Hrs.

#### **INSTRUCTIONS TO CANDIDATES :**

- 1. Question No. 1 compulsory.
- 2. Attempt FIVE questions in ALL with minimum ONE question from each UNIT.
- 3. Support the answer with sketches as per the need.
- Q1 a) What is efflorescence in concrete?
  - b) What do you mean by the terms spelling of concrete?
  - c) Enlist the two methods for repair of crack in brick masonary.
  - d) What do you mean by life cycle of buildings?
  - e) What do you understand by structural safety of a building?  $(2 \times 5=10)$

# Q2. What are the reasons behind the maintaining of a structure? Explain the role of an Architect involved in it from preconstruction stage to post construction stage of a building. (12.5)

UNIT-I

- Q3. Write short notes on the followings :
  - a) Effect of climate on life cycle of building.
  - b) Social significance of building maintenance.
  - c) The role of design and detailing on maintenance in post construction phase. (4+4+4.5)
- Q4. What are the causes for deterioration and decay of a building? Explain the remedial measures one can take in case of a RCC structure. (12.5)

Roll No. Total No. of Questions : 08

Total No. of Pages : 02

Max. Marks: 60

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#### UNIT-II

- Q5. What are the different types of cracks in a building? Enlist the possible causes of it. Explain the methods to repair the various cracks in case of load bearing structures. (12.5)
- Q6. What is retrofitting of structure? Explain in details the steps and methods of strengthening a column (RCC), which has undergone serious distress. (12.5)
- Q7. What are the causes of Dampness in a building and how it affects? Explain the general distress caused by moisture movement in a building. Suggest a treatment in details which can eliminate both dampness and efflorescence of a brick masonary. (12.5)
- Q8. Write short notes on any two the followings :
  - a) Corrosion of concrete.
  - b) Antitermite Treatment of buildings.
  - c) Deterioration of a structure due to faulty laying of services lines. (6+6.5)

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