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H – 3272

Reg. No. ....

Name : .....

**Eighth Semester B.Tech. Degree Examination, November 2019**

**08.806.8 : Elective IV**

**REPAIR AND REHABILITATION OF STRUCTURES (C)**

**(2008 Scheme)**

Time : 3 Hours

Max. Marks : 100

Answer all questions from Part A and one full question from each module of Part B.

**PART A**

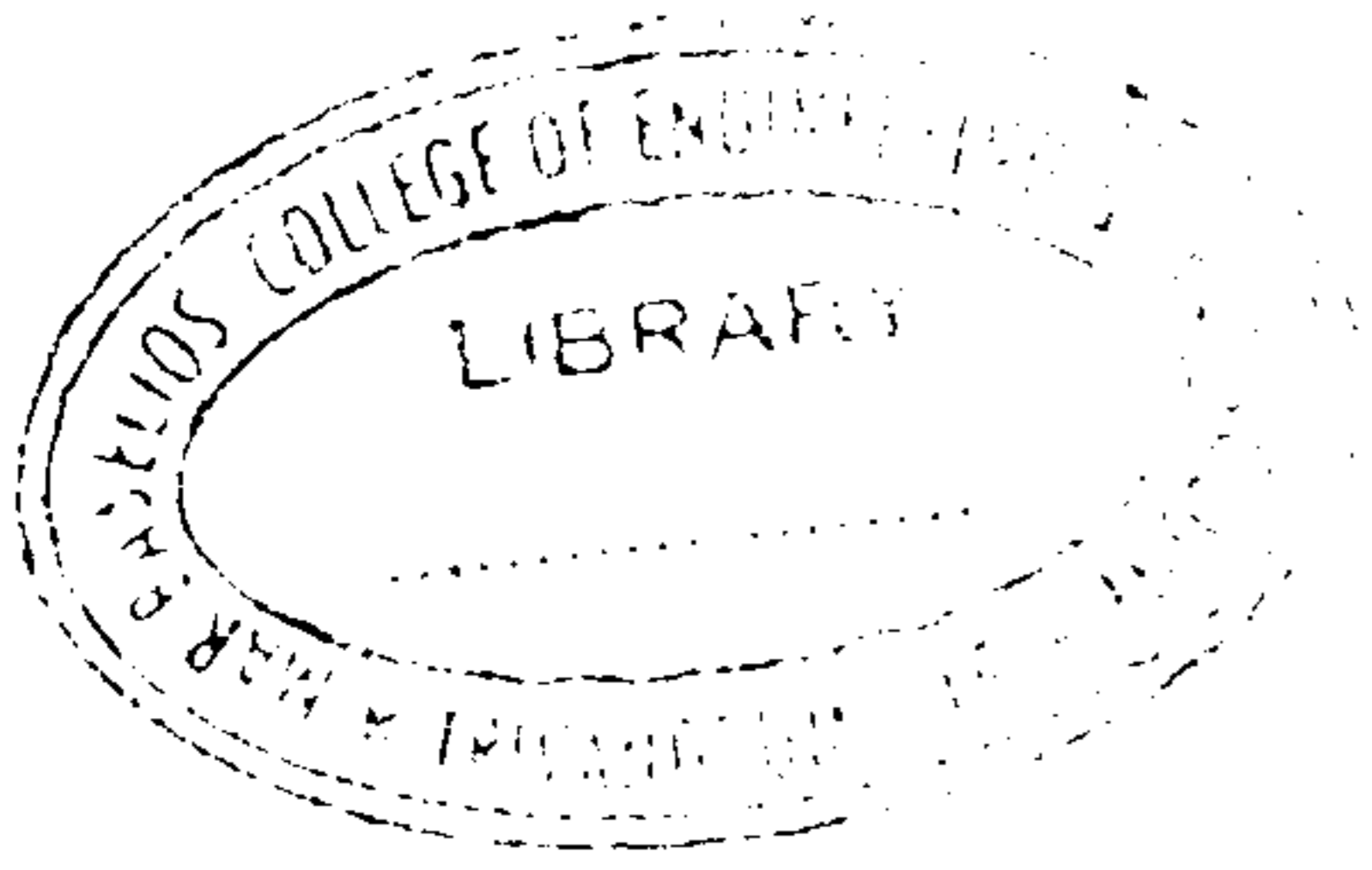
1. Explain briefly the following :

- (a) Effect of earthquake on deterioration in concrete structures.
- (b) Factors influencing maintenance
- (c) Any two preventive measures for deterioration in steel structures
- (d) Various aspects regarding cracks that should be investigated before deciding the mode of repair
- (e) Surface hardness testing to determine the strength of concrete
- (f) Methods of repair of steel structures
- (g) Methods of repairing of corrosion damage of reinforced concrete
- (h) Techniques for leak sealing

**(8 × 5 = 40 Marks)**

P.T.O.





PART B

**Module – I**

2. Discuss the various procedures of inspection for assessing the deterioration in structures. **20**

OR

3. Explain the various factors responsible for the initiation of the process of deterioration process in steel structures. **20**

**Module – II**

4. Discuss how a rebar locator is used for the detection of embedded reinforcement and available cover to assess the existing condition of an RC structure. **20**

OR

5. Explain the principle of Windsor probe test and how this method could be used for the diagnosis and assessment of deterioration in concrete structures. **20**

**Module – III**

6. Discuss the various procedures of repairing concrete floors and pavements. **20**

OR

7. List out the various techniques adopted for strengthening of existing structures. Explain any two of them. **20**

