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K – 5463

Reg. No.

Name :

Eighth Semester B.Tech. Degree Examination, February 2021
13.805.8 : REPAIR AND REHABILITATION OF STRUCTURES (C)
(2013 Scheme)

Time : 3 Hours

Max. Marks : 100

(Answer all questions)

PART – A

- I. Explain briefly the following:
- (a) Repair and rehabilitation of structures.
 - (b) Corrosion and durability of reinforced concrete structures
 - (c) Types of cracks in concrete
 - (d) Repairing of honey combed concrete
 - (e) Jacketing Techniques for strengthening of existing structures.

(5 × 4 = 20 Marks)

PART – B

Answer **one** full question out of the two from each Module.

Module – I

- II. (a) Discuss the causes of deterioration in concrete structures. 20
- OR
- (b) Explain the various factors responsible for the deterioration process in steel structures. 20

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Module — II

- III. (a) Explain the principle of Surface hardness test and how this method could be used for the diagnosis and assessment of deterioration in concrete structures. 20

OR

- (b) Discuss the methods used for the detection of embedded reinforcement and available cover to assess the existing condition of an R C structure. 20

Module — III

- IV. (a) Describe the various procedures of repairing corrosion damage of reinforced concrete structural elements. 20

OR

- (b) Discuss the various methods of repair of earthquake damaged steel structures. 20

Module — IV

- V. (a) Describe the water proofing techniques and grouting methods for repairing and strengthening of existing structures. 20

OR

- (b) Discuss the various methods adopted for retrofitting of existing steel structures. 20

