

S. B. Roll. No.....

REPAIR AND MAINTENANCE OF BUILDINGS
6th Exam/Civil/9515/Nov'24
(For Batch 2018 onwards)

Duration: 3Hrs.

M.Marks:75

SECTION-A

Q1. a) Define the following terms.

15x1=15

- i. Maintenance
- ii. Deterioration
- iii. Defects in building
- iv. Efflorescence
- v. Curing
- vi. Expansion joint
- vii. Permeability
- viii. Dampness
- ix. Joint sealant
- x. Durability

b) Fill in the blanks.

- xi. DPC is provided at _____ of the building.
- xii. The development of one or more fissures in the plaster surface is called _____.
- xiii. The process of filling cracks with concrete gun is known as _____.
- xiv. RCC stands for _____.
- xv. NDT stands for _____.

SECTION-B

Q2. Attempt any six questions.

6x5=30

- a. Explain the objectives of maintenance of buildings.
- b. Explain the various defects in timber.
- c. Describe the various non-destructive tests on structural elements.
- d. What are the causes of defects in roofs and terraces?
- e. Briefly explain the methods of repair of DPC against rising dampness.
- f. Explain the applications of joint sealants in repair work.
- g. Explain the prevention of corrosion in reinforcement.
- h. Explain the repair of mortar joints against leakage of moisture through walls.
- i. Explain the applications of curing compounds in repair work.

SECTION-C

Q3. Attempt any three questions.

3x10=30

- i. Explain in detail various factors causing deterioration of buildings.
- ii. Explain the causes of defects in following building elements:
a) Foundation b) Joinery work (Frames) c) Services
- iii. Name the various material placement techniques. Explain any two in detail with sketches.
- iv. Explain the various techniques for repair of joints in buildings.
- v. Name the various methods of crack repair. Explain any two in detail.