

M.Com. (Valu.) Sem.-3 Examination
Maintenance and Repairs of Bldg and Dil.
November-2025

Time : 2-30 Hours]

[Max. Marks : 70

- Q-1(A)** Explain in brief about Draying Shrinkage. **7 Marks**
- Q-1(B)** What are the objectives of maintenance of buildings? Classify the maintenance of structures and explain any two. **7 Marks**
- OR**
- Q-1(A)** Write a short note on: Rebound Hammer Test **7 Marks**
- Q-1(B)** Write a short note on: Ready Mix Concrete **7 Marks**
- Q-2** Define different classification of cracks and briefly explain any two repair measurement technique as case study. **14 Marks**
- OR**
- Q-2(A)** Write short on effect of chloride salts that lead to corrosion of reinforcement. **7 Marks**
- Q-2(B)** Explain the durability of concrete. **7 Marks**
- Q-3(A)** Define Propping and its concept & response to structure. **7 Marks**
- Q-3(B)** Explain the concept of RCC Jacketing for Structural Strengthening work. **7 Marks**
- OR**
- Q-3(A)** Enlist different method of cleaning-external surface of building and describe any one in details. **7 Marks**
- Q-3(B)** Write a note on Ferro-cement. **7 Marks**
- Q-4(A)** Explain the delivering steps of Grouting operation for repair work. **7 Marks**
- Q-4(B)** Explain the different ways to carry out structural sound repairs. **7 Marks**
- OR**
- Q-4(A)** Discuss the various factors affecting the quality of concrete. **7 Marks**
- Q-4(B)** Write short note on: Epoxy resin grout **7 Marks**
- Q-5** **Short Answers: (Attempt any seven – 2 marks each)** **14 Marks**
- 1) Define the term spalling.
 - 2) Define chemical attack.
 - 3) What is mean by soundness of cement?
 - 4) What is mean by AAR?
 - 5) Define NDT test?
 - 6) Define Polymer Concrete.
 - 7) Define concrete cover and its use.
 - 8) What is mean by cathodic protection?
 - 9) Define setting and hardening of cement.
 - 10) What do you mean by Dilapidations?