

B.ARCH, 4thYEAR,2nd SEMESTER,END SEMESTER EXAMINATION 2025

BUILDING MAINTENANCE AND MANAGEMENT

Full Marks: 100

Time: Three Hours

Part A- Answer any four Questions. Use figures where necessary.

1. Write short notes on any two a) Decay in buildings b) Settlement of Foundation c) Sandwich Piles (10)
2. a) What is Made-up soil ? b) How bearing capacity of soil can be increased. (10)
3. What are the probable causes of Damages in walls, what are their effects and remedies? (10)
4. a) What is D.P.C. and how it is re-layed to prevent Rising dampness in walls.
b) Why Surface cracks and structural cracks appear in walls and what measures can be taken to prevent them. (10)
- (5) What are the factors that causes Corrosion of steel in R.C.C. (10)

Part B- Answer question number 1 and any four Questions. Use figures where necessary.

1. Explain the following with examples and figures where necessary a) Radial shakes in timber b) Rind Galls in timber c) Knots in Timber d) Wet Rot in timber (20)
2. Draw a typical section of timber and explain its various parts. (10)
3. What are the properties of a Good Timber. (10)
4. a) What is Seasoning of Timber, and its advantage. b) what are the various methods of Seasoning (10)
5. Write short notes on any two a) Jacketing of Concrete b) Decay of Timber c) Preservation and Conservation of buildings. (10)
6. What is Retrofitting of a building? Explain briefly with figures a) Steel bracing b) External plate bonding. (10)