

**B.ARCH, 4thYEAR, 2<sup>nd</sup> SEMESTER,END SEMESTER EXAMINATION 2024**

**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 a) Decay in buildings b) Settlement of Foundation (10)
2. Write short notes on a) Sandwick Piles c) Made-up soil (10)
3. What are the probable causes of Damages in walls and what are the 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 are the remedies. (10)
5. Write a short note on durability of Concrete . (10)

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

1. Explain the following with examples and figures where necessary a) Fire resistance of timber b) Heart shakes in timber c) Rind Galls in timber d) Knots in Timber e) 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. What is Seasoning of Timber, what is the advantage of seasoning and what are the various methods of Seasoning (10)
5. Write short notes on a) Dry Rot and b) Decay of Timber (10)
6. What is Retroffiting of a building? Explain briefly with figures a) Steel bracing b) External plate bonding. (10)