

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL – 2024**

BUILDING MAINTENANCE & SERVICES

[Maximum Marks : 100]

[Time : 3 hours]

PART – A
(Maximum Marks : 10)

Marks

I. Answer **all** questions in one or two sentences. Each question carries 2 marks.

1. State the purpose of shoring.
2. List any two common defects in sewage and sullage system.
3. State maintenance of building.
4. State the need of conservation of buildings and heritages.
5. List the defects in painting.

(5x2=10)

PART – B
(Maximum Marks : 30)

II. Answer any **five** of the following questions. Each question carries 6 marks.

1. Discuss the common defects in staircase.
2. What are the common defects in wooden roof and mention remedial?
3. Discuss the difference defects in plastering and painting.
4. What are the preventive measures to avoid the common defects in building service?
5. What are the need for retrofitting?
6. Discuss the expected durability of structure.
7. What are the different types of maintenance?

(5x6=30)

PART – C

(Maximum Marks : 60)

(Answer **one full** question from each unit. Each full question carries 15 marks)

UNIT – I

III. (a) State the effect of usage of structures on its durability. (8)

(b) What are the aspects to be considered while planning for the maintenance of structures?(7)

OR

IV. (a) Explain the factors affecting durability of a structure. (8)

(b) Explain the important of maintenance on increasing the Durability. (7)

UNIT – II

V. (a) Classify the cracks, discuss the causes of cracks in building, their measurement and method of repair. (8)

(b) Explain the defects of plastering and its causes. (7)

OR

VI. (a) Explain the defects in wooden roof and how it can be prevented. (8)

(b) Explain the preventive and remedial measures for defect in building components. (7)

UNIT –III

VII. (a) Draw the vertical section of a lift shaft and mark the components and state its functions. (8)

(b) Identify the common defects in staircase, water supply and sanitary, drainage and electrical system. (7)

OR

VIII. (a) Explain the function of Buss bar, rising main, earthing and ELCB in the electrical system of a building. (8)

(b) Explain the different methods to avoid the common defects in building service. (7)

UNIT – IV

IX. (a) Explain underpinning with sketch. (8)

(b) Explain different types of retrofitting methods. (7)

OR

X. (a) Explain restoration and conservation of building and heritages. (8)

(b) Explain the different methods of restoration and conservation of building and heritage. (7)
