

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, OCTOBER/NOVEMBER – 2018**

BUILDING SERVICES

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

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

- I. 1. Define ELCB?
2. List out the parts of a cable.
3. Define wholesome water.
4. What is waterseal?
5. Define reverberation time. (5x 2 = 10)

PART-B

[Maximum Marks: 30]

(Answer any *Five* of the following questions. Each question carries 6 marks)

- II. 1. Explain ISI Specifications for earthing lead.
2. Illustrate with sketches methods of distribution of water.
3. State the function of pipe appurtenances. Explain with sketch with working of air valve.
4. State wind effect. Illustrate with sketches.
5. List out different parts of a house drainage system. State the function of each one.
6. Explain important considerations in fire protection of buildings.
7. Explain different fire protection systems. (5x 6 = 30)

PART-C

[Maximum Marks: 60]

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

MODULE-I

- III. 1. Draw the circuit diagram of a socket outlet controlled by one pole switch. (5)
2. Classify cables according to the type of insulations used. Explain any five. (10)

OR

- IV. 1. List out various types of wiring systems. Write briefly on each one. (10)
2. Write on strip earthing and rod earthing. (5)

MODULE-II

- V. 1. Illustrate with sketches the following pipe joints:- (3 x 3 = 9)
(a). Bell and spigot joint. (b). Expansion joint. (c). Flanged joint.
2. Explain with sketches service connection in a building. (6)

OR

- VI. 1. State any five functions of service reservoirs. (5)
2. Explain with sketches the working of
(a). Reciprocating pump (b). Rotary pump (2 x 5 = 10)

MODULE-III

- VII. 1. Illustrate with sketches systems of plumbing. (10)
2. Write the function of septic tank. Draw a cross section through a septic tank
And mark the parts. (5)

OR

- VIII. 1. Explain how air conditioning systems are classified (10)
2. State the importance of ventilation in a building (5)

MODULE- IV

- IX. 1. Explain structural provision for lift installation (12)
2. Define escalator. (3)

OR

- X. 1. Explain acoustical defects and their remedies. (10)
2. Point out the factors to be considered in the acoustical design of an open air theatre. (5)