

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE- APRIL 2018.

BUILDING SERVICES

[Maximum Marks : 100]

Time : 3 Hrs

PART-A
[Maximum marks: 10]

Marks

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

1. Enlist any four system of wiring.
2. State any two advantages of conduit wiring.
3. Explain municipal and domestic level of water supply.
4. Define night soil.
5. Define acoustics.

[5X2=10]

PART - B

[Maximum Marks : 30]

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

1. Show the distribution board system of electrical energy distribution.
2. Explain the working of cartridge type HRC fuse with figure.
3. Explain systems of water supply.
4. Write on unitary central system of air conditioning.
5. List out any two functions of a good trap.
6. Classify fire.
7. Explain causes and effects of fire.

[5x6 =30]

PART - C

[Maximum marks : 60]

[Answer one full question from each unit. Each full question carries 15 marks]

UNIT I

- III (a) Explain the use of pipe earthing with neat figure. (9)
- (b) Show in tree system of wiring 10 lamps and two fans in two sub circuits. (6)

OR

- IV (a) Explain the neat circuit diagram of two lamps controlled by individual switches with an independent plug point. (8)
- (b) Enlist the properties of insulating materials used in electric cables. (7)

UNIT- II

- V (a) Explain rain water harvesting of roof top with neat sketches. (8)
(b) Explain following pumps with neat sketches (i) dynamic pumps and (ii) displacement pump. (7)

OR

- VI (a) Explain system of distribution in water supply. (8)
(b) Explain following joints of pipe with sketches. (i) flexible joint (ii) collar joint (7)

UNIT- III

- VII (a) What is septic tank? Write constructional and design aspects of septic tank. (10)
(b) Define soak pit. Draw a cross section through a soak pit and mark the parts. (5)

OR

- VIII Write briefly on essentials of an air conditioning system. (15)

UNIT – IV

- IX (a) Explain traction lift and hydraulic system. (10)
(b) Write on host way of lift. (5)

OR

- X Explain general factors to be considered in acoustical design of building. (15)
