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43(4)4.6

2019

BUILDING SERVICES

Paper : ARC-4.6

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Describe the signs and symbols as per I.S.I. standard for the following : **(any five)** 1×5=5
 - (a) Earth
 - (b) Lamp
 - (c) Two way switch
 - (d) Bell push
 - (e) Socket outlet 3-pin 5A
 - (f) Ceiling fan.

2. Fill in the blanks : 1×5=5
 - (a) The full form of LED is _____.

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(b) _____ is a process in which two or more metal items are joined together by melting.

(c) A _____ allows the flow of current.

(d) The full form of MCB is _____.

(e) A _____ is an electrical component that can make or break an electrical circuit.

3. Answer the following questions : **(any six)**
5×6=30

(a) State the differences between Fuse and MCB.

(b) State the differences between Wires and Cables.

(c) What are Semi-conductors ? What are the different semi-conductors ?

(d) What is Electricity ? What is the difference between Static Electricity and Current Electricity ?

(e) Write about different systems of wiring. What is Concealed Conduit wiring ?

(f) What are the different sources of light ? What are Incandescent Light ?

(g) Define Current and Resistance.

4. Write short notes on : **(any four)**

5×4=20

(i) Carbon Arc Lamps

(ii) Concealed lighting

(iii) Different systems of Wiring

(iv) Plate Earthing

(v) Different types of Switches

(vi) Construction of compact fluorescent lamps.

5. Answer of the following questions :

10×4=40

(a) What are the different types of lamps ? Explain each type with a sketch.

(b) What is Earthing ? Describe the different types of Earthing with sketches.

(c) What are electrical substations ? What are its various types ?

(d) Make a single line interior plan of a 2BHK apartment (not to scale) and do the electrical layout of the same showing fans, exhaust, lighting fixture circuits, switches, switch boards and distribution boards.