

Total number of printed pages-4

43 (4) BUSR-II

2014

BUILDING SERVICES-II

Paper : ARC-4-6

Full Marks : 100

Pass Marks : 40

Time : Three hours

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

- I. Answer the following questions : $2 \times 10 = 20$
(Each question carries 2 marks)
- (i) What is Conductor ? What are the different types of conductors ?
 - (ii) State the difference between wires and cables.
 - (iii) What is an electrical substation ?
 - (iv) What is Miniature Circuit Breaker ?
 - (v) State the 'Inverse square law'.

Contd.

- (vi) What is a Transformer ?
- (vii) State the difference between Fuse and MCB.
- (viii) What are the different sources of light ?
- (ix) What is Concealed Conduit wiring ?
- (x) What are Incandescent Lamps ?

II. Write short notes on the following : *(any four)*
(Each question carries 5 marks) $5 \times 4 = 20$

- (a) Electrical connection in a building
- (b) Describe the working of a Compact Fluorescent lamp with sketches
- (c) Halogen lamps
- (d) Circuit Breaker
- (e) Plate Earthing
- (f) Carbon Arc Lamps
- (g) Different types of switches.

III. Answer the following : $15 \times 4 = 60$
(Each question carries 15 marks)

- i. (a) Explain the different types of Lighting Schemes with diagrams.

Or

- (b) What are the different types of Lamps ? Explain each type with sketches.

- ii. (a) Explain the different types of house wiring accessories, with illustrative sketches.

Or

- (b) Explain the different systems of wiring used in house wiring system.

- iii. (a) What is Earthing ? Describe the different types of Earthing with sketches.

Or

- (b) Describe the system of electrical distribution in a building.

iv. What are fuses ? What are electrical substations ? Differentiate between electrical transmission and electrical distribution.