

Sl. No. 454

AR 506

No. of Printed Pages : 3

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 0128

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B. Arch. Examination-2019-20

(Odd Semester)

BUILDING SERVICES (ELECTRICAL)

Time : Three Hours]

[Maximum Marks : 50

Note :- (i) Attempt all questions.

(ii) Assume any missing data.

(iii) Marks are indicated against each questions

1. Explain what is meant by the following terms : 10

(i) Luminous intensity

(ii) Luminous flux

(iii) Illumination and describe the main classification of building lighting arrangements

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2. Explain briefly the purpose of neutral and earth wires in a three phase distribution system. 10
3. Define any five of the following support your answer with neat sketches and symbols : 10
 - (i) Earth electrode
 - (ii) Socket outlet and plug
 - (iii) Space height ratio
 - (iv) Lambert's cosine law
 - (v) Batten wiring
 - (vi) Wood casing and capping wiring
4. Write detailed notes on any two of the following : 10
 - (a) Installation of wooden batten wiring
 - (b) Importance of flood lighting in architectural projects
 - (c) Gaseous discharge lamp
5. A workshop of size 12.0 m × 24.0 m is to be illuminated by lamps having lumen output of 3000

lumens. The average illumination required at work place is 300 Lux. Calculate the number of lamps required to be fitted in it. Assuming the coefficient of utilization and maintenance factor to be 0.7 each.

10

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