



C14-EE-501

4633

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DEEE - V SEMESTER EXAMINATION

ELECTRICAL UTILIZATION

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=30

- Instructions :**
- (1) Answer **ALL** questions.
 - (2) Each question carries **THREE** marks.
 - (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 Define (a) Candle Power (b) MHCP (c) Solid Angle. 3
- 2 Write about Glare and how to avoid it ? 3
- 3 Define (a) Luminous Efficiency (b) Utilisation Factor 3
- 4 List the applications of Indirect Heating. 3
- 5 List the methods of Temperature controls for Resistance Heating. 3
- 6 List the different types of Electrode used for Welding. 3
- 7 Write in brief about compressor motor used in Air conditioner. 3
- 8 What is Refrigeration, state some of its uses ? 3
- 9 State the need for Power Saving Devices. 3
- 10 List the advantages of LED Lamps over other Lamps. 3

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[Contd...

PART - B**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
 - (2) Each question carries **TEN** marks.
 - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

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| 11 | (a) List different types of Lamp Fittings. | 4 |
| | (b) Write about Direct Fittings with figure and its applications. | 6 |
| 12 | In a Street lighting scheme, lamps having luminous intensity of 600 candela are hung at a height of 6m, The distance between two lamp posts is 8m. Find the illumination under the lamp and at centre in between the lamp posts. | 10 |
| 13 | Explain with neat figure about Direct Resistance heating and state its applications. | 10 |
| 14 | Draw a neat basic circuit for Electric Arc Furnace and explain it. | 10 |
| 15 | Explain with neat figure about Seam Welding and mention its application. | 10 |
| 16 | (a) Compare between Resistance Welding & Arc Welding in six aspects. | 6 |
| | (b) Write about Welding Transformer with figure. | 4 |
| 17 | Draw the Electric circuit of Refrigerator and State the function of each Component. | 10 |
| 18 | Write about the Benefits of Energy Efficient Systems. | 10 |