с14-ее-501



# 4633

### BOARD DIPLOMA EXAMINATION, (C-14) OCTOBER/NOVEMBER-2018 DEEE - FIFTH SEMESTER EXAMINATION

ELECTRICAL UTILIZATION

Time : 3 Hours ]

[Total Marks: 80

#### PART-A

3X10=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 (i) Luminous flux (ii) Luminous intensity
- 2. Define (i) MSCP (ii) Solid angle.
- 3. List the types of lamp fittings.
- 4. State the advantages of electric heating.
- 5. State the advantages of dielectric heating.
- 6. State advantages of welding.
- 7. What are the three types of a refrigeration system?
- 8. State the parts of air conditioning system.
- 9. State the advantages of CFLS
- 10. State the three benefits of energy efficient system.

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#### PART-B

10X5=50

10/3-50
<ul> <li>Instructions : 1. Answer any Five questions.</li> <li>2. Each question carries ten marks.</li> <li>3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer</li> </ul>
11. Explain domestic, industrial, street lighting for illumination.
12. A lamp having a candle power of o300in all directions is provided with a reflector
which directs 70% of total light uniformly on circular area 40m in diameter, the lamp
is hung at 15m above the area (a) Calculate illumination
(b) Calculate illumination at center.
13. Explain briefly working principle of direct resistance heating and its application.
14. Explain construction and working principle of core less type induction furnace with
neat diagram.
15. Explain with neat sketch seam welding process.
16. Compare the AC welding process with DC welding process in 6 aspects.

- 17. Explain refrigeration system with neat electric circuit
- 18. Explain construction of magnetic induction lamp.

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