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**III Semester B.Sc. Degree Examination, January/February - 2025****INTERIOR DESIGN AND DECORATION****Building Services - Lighting****Paper : ID - T 3.2****(NEP Scheme 2021-22 Onwards)****Time : 2½ Hours****Maximum Marks : 60****Instructions to Candidates:**

- i) All the questions are compulsory.
- ii) Illustrate wherever necessary.

**SECTION - A****I. Answer any Ten of the following:****(10×2=20)**

1. Define Reflection.
2. Define Luminous Intensity.
3. Expand CRI and CCT.
4. What are the materials used in ECO Lighting?
5. Define voltage and current.
6. Mention any four source of electricity.
7. Expand MCB and ELCB.
8. Name any two types of wires.
9. Define pipe earthing.
10. Name any four types of lamps used in lighting fixtures.
11. Define Diversity factor.
12. What is diffused light?

**[P.T.O.]**



(2)  
SECTION - B

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II. Answer any Five of the following:

(5×4=20)

13. Write a short note on LED lights.
14. Explain different types of protection systems.
15. Explain the principles of lighting with diagrams.
16. Explain why position of lighting is important in a building.
17. List Recommendations for good natural lighting.
18. Explain the following:
  1. Ambient light.
  2. Task light.

SECTION - C

III. Answer any Four of the following:

(4×5=20)

19. Differentiate between Transmission and Distribution System.
  20. Mention any 5 rules As PEP of NBC with relevant to Earthing in a building.
  21. A office measures 10m×7m with a floor to ceiling height of 3m. The working plane height is 0.8m office is being used for general duties including computer usage. Determine the number of luminaries required.  
 $UF = 0.54$   
 $MF = 0.8$   
Each bulb output is 75 lumens.
  22. Explain the types of lighting arrangements with neat diagram.
  23. Explain the quality and quantity of lights with examples.
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