

S.No. 5591

20 SACI 04

(For candidates admitted from 2020–2021 onwards)

B.Sc. DEGREE EXAMINATION, APRIL 2022.

Part III — Allied

LIGHTING AND LIGHT FIXTURE

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL the questions.

1. What is wavelength in light?
2. Differentiate illumination and luminance.
3. What are the causes of glare?
4. Name any four types of light commonly installed in garden and porch.
5. What is color temperature?
6. List out the important factors affecting the color.
7. What is meant by luminaries?

8. Mention the standard light sockets for kitchen.
9. What is the purpose of outdoor lighting?
10. Give your suggestions for lighting the get-together party.

PART B — (5 × 5 = 25)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Describe the photometric qualities of light.
Or
(b) Give a note on concept of day light in interior design.
12. (a) Explain the formula to calculate artificial lighting.
Or
(b) Bring out the methods by which you prevent the glare while doing household activities.
13. (a) Determine the factors affecting the light intensity and colour.
Or
(b) Describe the psychological effects of colour in various rooms.

14. (a) Enumerate the advantages of light control system.

Or

- (b) Discuss the standards and protocols followed in setting commercial lighting control system.

15. (a) Clarify the elements of lighting design.

Or

- (b) Elucidate the principles of lighting design.

PART C — (3 × 10 = 30)

Answer any THREE questions.

16. Give an outline on requirements of natural lighting.
17. Explain the types of light installation in interior and exterior space.
18. Bring out the effect of colour in different areas of the house.
19. Elucidate the lighting accessories needed for installation of lighting fixtures.
20. What type of lighting accessories you will recommend for college day celebration?