

25901341

Reg.No :

Name :

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
MGU-UGP (HONOURS) REGULAR EXAMINATION March 2026

Fourth SEMESTER

**Discipline Specific Core Course (DSC) - MG4DSCIAA201 - SERVICES &
SPECIFICATIONS I**

(2024 ADMISSION ONWARDS)

Duration: 2 hours

Maximum Marks: 70

***Remember(K), Understand(U), Apply(A), Analyse(An), Evaluate(E), Create(C), Skill(S), Interest(I)
and Appreciation(Ap)***

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

Part A

Short Answer

Answer any **10** questions

Each question carries **2** marks

1. What is sound transmission loss? [K] / [CO2]
2. What is wood wool? [K] / [CO2]
3. Differentiate between natural and artificial light. [U] / [CO1, CO4]
4. What is illuminance? [U] / [CO1, CO4]
5. Define reflection of sound. [K] / [CO2]
6. What is task-based lighting planning? [U] / [CO1, CO4]
7. Define circuit protection. [K] / [CO1, CO5]
8. What is glass wool? [K] / [CO2]
9. Suggest fire protection measures for a room with high fire load. [U] / [CO3]
10. What happens when an electrical circuit is overloaded? [K] / [CO1, CO5]

11. Apply fire-retardant treatment to wooden furniture in interiors. [A] / [CO3]
12. Why is daylight important for sustainable design? [A] / [CO1, CO4]
- [2x10 = 20]**

Part B

Short Essay

Answer any **6** questions

Each question carries **5** marks

13. Describe the diffusion of light and materials used for diffused lighting. [U] / [CO1, CO4]
14. Write about casing, capping and batten wiring methods. [U] / [CO1, CO5]
15. What are the factors that influence sound absorption? [K] / [CO2]
16. Explain the safety regulations to be followed in residential electrical installations. [U] / [CO1, CO5]
17. Explain the physical and psychological effects of good lighting in interiors. [A] / [CO1, CO4]
18. Write an account about the 'building wiring system'. [U] / [CO1, CO5]
19. Apply the principles of fire protection while planning the interior layout of a small commercial office. [A] / [CO3]
20. Explain the sound insulation of the floor and ceiling. [U] / [CO2]
- [5x6 = 30]**

Part C

Essay

Answer any **2** questions

Each question carries **10** marks

21. Explain fire detection and alarm systems used in residential and commercial buildings. Discuss the working of smoke detectors and sprinkler systems. [U] / [CO3]
22. Explain major factors to be considered while designing lighting for various interior spaces such as classrooms, offices, and residences. [A] / [CO1, CO4]
23. Explain various types of artificial lighting and their applications in interior spaces with suitable examples. [A] / [CO1, CO4]
- [10x2 = 20]**