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DEID506

Reg. No.

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V Semester B.Sc. Degree Examination, December/January - 2025/2026

INTERIOR DESIGN AND DECORATION

Intelligent Buildings

(NEP Scheme 2021-24 Onwards Freshers and Repeaters)

Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

1. All Sections are compulsory.
2. Illustrate wherever necessary.

SECTION - A

I. Answer any TEN of the following.

(10×2=20)

1. What is a intelligent building.
2. Define energy efficient design.
3. What is renewable energy sources?
4. What is the purpose of CCTV systems?
5. What is difference between analog and IP cameras.
6. What is DVR in CCTV systems?
7. Define Intrusion detectors.
8. What is biometrical credential?
9. Mention any two locking devices used to access control systems.
10. Define LAN.
11. What is fire detectors?
12. Name any two types of fire alarm panels.



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SECTION - B

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II. Answer any **FIVE** of the following. (5×4=20)

13. Explain the basic criteria for green and smart building design.
14. Describe types and features of CCTV cameras in building.
15. Explain different types of intrusion detectors.
16. Describe the working of biometric access control systems.
17. Explain TCP/IP and ethernet protocols and their use in intelligent building.
18. Discuss the difference between conventional and addressable fire alarm panels.

SECTION - C

III. Answer any **FOUR** of the following. (4×5=20)

19. Explain energy management systems of MEP design fundamentals used in intelligent building.
  20. Describe the complete process of CCTV setup including camera selection/cabling, DVR configuration etc.
  21. Discuss the component; panel programming and trouble shooting intruder alarm systems.
  22. Describe various locking devices, communication protocol, and system configuration in access control systems.
  23. Explain fire alarm system components and their interfacing with access control systems.
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