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BIDIDC 263

**Credit Based IV Semester B.Sc. (ID&D) Examination, September 2022
(New Syllabus) (2015 – 16 Batch Onwards)
BUILDING SERVICES – II**

Time : 3 Hours

Max. Marks : 120

PART – A

Answer **any six** of the following questions.

(10×6=60)

1. Explain the following :
 - a) Retina scan system.
 - b) Finger print system.
2. Explain what is solar gains.
3. What is a biometric system ? And also explain the face recognition system in detail.
4. Explain how the insulation is done to reduce heat flow out of building in cold climates.
5. What are the advantages of thermal insulation ?
6. What are the different types of shading devices used to control radiation heat in buildings ?
7. Explain what is indoor air quality and also explain various process of improving indoor air quality.

PART – B

Answer **any five** of the following.

(8×5=40)

8. Explain barcode and smart card in detail.
9. Explain what is LAN and WAN in Networking.

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10. Explain what is a visual comfort in detail.
11. Explain the following :
 - a) Relative humidity.
 - b) Effective temperature.
12. Explain what is a energy system.
13. What are the types of natural ventilation ?
14. Explain the different types of air distribution systems.

PART – C

Answer **any two** of the following questions.

(10×2=20)

15. Explain the different types of heat insulating materials used in buildings.
 16. Explain the different types of security cameras used for interiors.
 17. What are motion sensors ? And also explain the different types of motion sensors used in buildings.
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