

Total number of printed pages-4

43 (5) BLDS-III 5-6

2015

BUILDING SERVICE - III

Paper : ARC-5-6

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

PART-A

(Any 10 - 2 Marks each)

1. State two advantages and disadvantages of air conditioning. 2
2. Explain Conduction, Insulation, Combustion, Latent heat. 2
3. Define Escalator, Elevator, Air condition, Fire hydrant. 2

Contd.

4. Draw the flow diagram of a refrigeration cycle. 2
5. Mention two main components of an AC. 2
6. State the function of a dumbwaiter. 2
7. Define sprinklers 2
8. Define wet comers and dry risers 2
9. Define AHU. 2
10. State two difference between escalators and elevators. 2
11. Give full form of AHU, CFC, HCFC. 2
12. How is refrigeration different from air conditioning. 2

PART-B

(Any 4 - 5 Marks each)

Write short notes of the following :

1. Explain the term Air conditioning. 5
2. On what criteria classification of fire is done ?
What are the different classes ? 5
3. What do you understand by portable fire extinguishers ? What are types of portable fire extinguisher used ? 5
4. Explain the Architectural requirements in installation of Lifts in a building. 5
5. Explain the functions of condensers, compressor, and expansion valve. 5
6. Write about fire fighting requirement for high rise buildings in India as per NCB. 5

PART-C

(any 3 - 20 Marks each)

1. Explain any five types of lifts with proper diagrams. 20
2. State the classification of Building between an occupancy for fire protection with detail of any one classification. 20
3. Compare absorption refrigeration system and compressive refrigeration system. Write atleast 5 points each. 20
4. Write a brief history of development of AIR conditioners. 20
5. Write a brief history of development of lifts and escalators. 20