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Total No. of Printed Pages: [1]

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B.Arch. (Semester – 9th)
ARCHITECTURAL BUILDING SERVICES
Subject Code: BARC1965
Paper ID: [120152]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Question no.1 is compulsory. All questions carry equal marks.
2. Attempt Four questions more with minimum One questions from each unit.

Q 1. Write short notes on the following: (02 marks each)

- a) IBMS
- b) Main objective of waste water management
- c) 2 main uses of solar power
- d) Environmental impact of solar panels
- e) Internet Protocols
- f) *Aeration*

UNIT-I (12 marks each)

- Q2. How the Building automation systems work together?
- Q3. How the automated parking system is installed in the buildings? Explain through appropriate example and sketches.

UNIT-II (12 marks each)

- Q4. How do you ensure waste water treatment operations comply with regulatory standards?
- Q5. What is bio medical waste? Discuss the strategies to manage the solid waste in hospitals.

UNIT-III (12 marks each)

- Q6. Define the intelligent energy distribution system. Illustrate in detail installation process of solar power.
- Q7. Differentiate between LPG and bio gas. How it is carried out the installation of Bio gas in buildings? Explain through sketches.