



POORNIMA UNIVERSITY, JAIPUR.
MID SEMESTER EXAMINATION 2020-21 (ODD Semester)

School : School of Planning & Architecture
Course : IV Year VII SEM – B. Arch.
Subject Name : Advanced MEP Services
Subject Code : BAR07102

Max. Time: 1.5 hrs.

Max. Marks: 12

NOTE:- Attempt four questions. There is internal choice in Q. 1 & 2, Q. 3 & 4, Q. 5 & 6 & Q. 7 & 8.

Sec-A (CO 3) (Max. Marks-6)

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|------------|------------|--|------------------------------|
| Q.1 | (a) | What is HVAC System? Explain its importance in building. | Marks
(1.5) |
| | (b) | What are the different components of HVAC in buildings? | (1.5) |

OR

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| Q.2 | (a) | Explain HVAC concept in detail. | (1.5) |
| | (b) | What are the different types of air conditioning systems used in buildings? | (1.5) |
| Q.3 | (a) | Explain the concept of air handling units in HVAC systems. | (1.5) |
| | (b) | What are the components of air handling unit in HVAC systems. | (1.5) |

OR

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| Q.4 | (a) | Write down the different types of ACs used for residential buildings. | (1.5) |
| | (b) | What are the energy conservation techniques for the residential buildings? | (1.5) |

Sec-B (CO 4) (Max. Marks-6)

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| Q.5 | (a) | What are the solar panels? | (1.5) |
| | (b) | Explain electricity generation with solar panels with neat sketches. | (1.5) |

OR

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| Q.6 | (a) | What are the wind turbines? | (1.5) |
| | (b) | Explain the components of wind turbines with neat sketches. | (1.5) |
| Q.7 | (a) | What is the importance of solar and wind power plants in society. | (1.5) |
| | (b) | What is the solar water heating system? | (1.5) |

OR

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| Q.8 | (a) | What are the usage of solar and wind power plants in building complexes? | (1.5) |
| | (b) | What is the concept of solar electricity generation? | (1.5) |
