



Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S8 (R,S) Exam (FT / PT) April 2025 (2019 Scheme)

Course Code: CET476

Course Name: BUILDING SERVICES

Max. Marks: 100

Duration: 3 Hours

PART A*Answer all questions, each carries 3 marks.*

Marks

- | | | |
|----|---|-----|
| 1 | Explain different types of spouts used in rainwater harvesting. | (3) |
| 2 | Define the terms pressure and head in water supply system. | (3) |
| 3 | Write short note on flushing cistern. | (3) |
| 4 | What are dispersion trenches? | (3) |
| 5 | List various types of pumps used in various situations. | (3) |
| 6 | What is the difference between dumbwaiters and elevators? | (3) |
| 7 | Explain cavity or Helmholtz resonators. | (3) |
| 8 | List any 3 characteristics of acoustic materials. | (3) |
| 9 | Explain the sustainable features of green building. | (3) |
| 10 | Explain HVAC. | (3) |

PART B*Answer any one full question from each module, each carries 14 marks.***Module I**

- | | | |
|----|--|------|
| 11 | a) What is rainwater harvesting? Explain the different methods adopted. | (10) |
| | b) Explain the basic principles of water supply for a multi-storeyed building. | (4) |

OR

- | | | |
|----|--|------|
| 12 | a) Draw neat sketches and describe the following joints: | (10) |
| | a) Grooved joint | |
| | b) Spigot and Socket joint | |
| | c) Flanged Joint | |
| | d) Soldered Joint | |
| | b) Explain the uses and need of water purifiers. | (4) |

Module II

- | | | |
|----|---|-----|
| 13 | a) Explain on-site processing and disposal methods adopted for solid wastes quantity. | (8) |
| | b) Write notes on cess pool and soak pit. | (6) |

OR

- 14 a) Explain different sanitary fixtures in detail. (8)
b) Explain in detail about decentralized treatment methods for multi storeyed buildings. (6)

Module III

- 15 a) Define Lift. Explain its different components, types in detail. (10)
b) Write notes on freight elevators and passenger elevators. (4)

OR

- 16 a) Describe various types of elevators and their uses. (10)
b) What is the difference between split unit air conditioner and window air conditioner? (4)

Module IV

- 17 a) Discuss any five characteristics of fire resisting materials. (10)
b) Write notes on panel absorbers and membrane absorbers. (4)

OR

- 18 a) What is the role of functional absorbers and variable sound absorbers? Explain. (9)
b) List out the causes and effects of fire. (5)

Module V

- 19 a) What is LEED India rating system? (10)
b) Write note on Building Automation system. (4)

OR

- 20 a) What are green materials. Explain with examples (8)
b) b) Write note on: (6)
1. Modern security system
2. Intelligent lighting system
