

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S8 (R,S)(FT/PT/WP) Examinations April 2026 (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 | Write a note on the term 'head' in water supply system. | (3) |
| 2 | What are the functions of fixtures in water supply system. | (3) |
| 3 | Write a note on intercepting trap. | (3) |
| 4 | What is cess pool? | (3) |
| 5 | Name the essential components used in the installation of centrifugal pump. | (3) |
| 6 | List the accessories of wiring with uses. | (3) |
| 7 | List firefighting installations in building with their function. | (3) |
| 8 | What are the factors to be followed for noise control in residential buildings? | (3) |
| 9 | Write a note on HVAC. | (3) |
| 10 | Briefly explain the concept of building automation. | (3) |

PART B

Answer any one full question from each module, each carries 14 marks.

Module I

- | | | |
|----|---|-----|
| 11 | a) Describe with neat sketches the various types of joints in water supply lines. | (8) |
| | b) What is meant by distribution reservoir? Explain various types of distribution reservoirs. | (6) |

OR

- | | | |
|----|---|-----|
| 12 | a) With neat sketches explain types of rainwater harvesting systems. | (9) |
| | b) What is meant by water meter? Explain various types of water meters. | (5) |

Module II

- | | | |
|----|---|-----|
| 13 | a) Explain the working and design aspects of septic tank. | (9) |
| | b) Write short note on flushing cistern. | (5) |

OR

14 a) Compare single stack system, one pipe system and two pipe system with neat sketch. (9)

b) What are the disposal methods of solid waste? (5)

Module III

15 a) Draw the electrical layout of a two-bedroom house. (8)

b) What are dumbwaiters? List out uses and types of dumbwaiters. (6)

OR

16 a) What is an Escalator? Explain the component parts and types of an Escalator. (8)

b) What are the objectives of air conditioning in buildings? (6)

Module IV

17 a) List the essential requirements to be provided for fire safety in building as per NBC. (9)

b) What are the requirements of good acoustical materials? (5)

OR

18 a) Explain various firefighting equipment. (6)

b) What are acoustical materials? Discuss any 3 types of acoustic materials. (8)

Module V

19 a) Explain LEED India certification for green building. (8)

b) List and explain any 3 core functional areas of building automation. (6)

OR

20 a) How is energy efficiency and water efficiency acquired in green buildings? (10)

b) Write a note on intelligent lighting. (4)
