

Federal University of Technology, Minna
Industrial and Technology Education Department
First Semester Examination 2021/2022 Session
Building Services ITE 531

Attempt 3 Questions only. All Questions Carries Equal Marks
Time Allowed: 2 Hours

1. Insecurity is a major threat to occupants and properties of various buildings in Nigeria today. Briefly identify these challenges and make strong recommendations on the strategies / devices to ensure improved security system in building and its environment (Maximum of 1 ½ pages).

- 2a. The drainage system of a building after construction and installation should be subjected to functionality tests before use. Identify 4 tests and briefly explain each.
- b. What are the functions of these materials in the electrical installation of buildings?
 - i. Circuit Breaker
 - ii. Distribution Board

3. Write short note on the following;
 - a. Water supply and treatment
 - b. Stabilization pond
 - c. Design and construction process of a drainage system of a 3 bedroom bungalow in your town
 - d. Manhole

- 4a. Elevators and lifts facilitate the vertical movements of man and goods in storey buildings in modern construction. Write a short note on the various types, its main components and principles of operation after installation.
- b. Fire outbreak in buildings can be destructive to lives and properties;
 - i. Mention 5 possible causes of this outbreak
 - ii. Identify 5 preventive measures to avoid fire outbreak
- c. List 2 main electrical wiring methods of building