

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
FIRST SEMESTER EXAMINATION 2022/2023

Course Code: ITE 533

Course Title: Maintenance Technology in Building

Instruction: Answer Four Questions Only

Time: 2 Hours

1. a) To minimize the cost of maintenance and ensure the maximum use over the life span of any building structure investment, there is need for effective building maintenance. Hence, explain the concept of building maintenance in detail

b) Differentiate between properties management and maintenance management of building structure
2. a) Discuss the characteristic of maintenance sector in term of building maintenance technology

b) The mechanism of moisture movement through the porous material takes place in both saturated and unsaturated soils. Explain
3. a) Outline five (5) and explain two (2) possible repairs or maintenance of stonework in building structure.

b) Explain the concept of building diagnostic in building maintenance
4. a) What are the two (2) ways to which differential settlement can affect a building?

b) Briefly explain the three (3) classes of damage resulting from foundation failure.
5. a) Explain the remedial measures with regards to problem of rising moisture from the ground in a porous wall medium

b) State four (4) problems encounter in the absence of damp-proof courses in very old buildings
6. a) Explain the Causes of Rain Penetration in building structure

b) Briefly explain the following devices for building diagnostics in building maintenance technology
 - i) Moisture Meters
 - ii) Carbide Meters