

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
INDUSTRIAL AND TECHNOLOGY EDUCATION DEPARTMENT**

2021/2022 FIRST SEMESTER EXAMINATION

COURSE TITLE: BUILDING CONSTRUCTION III

COURSE CODE: ITE 331

Time Allowed: 2 Hours

Attempt 3 questions only

1a. Identify 5 types of foundation using a labelled sketch to differentiate them.
b. Briefly explain the purpose and application of DPC in building construction
c. Excavation of foundation in water logged soil can be challenging. As a builder, recommend possible solutions to ensuring a safety successful operation.

2. Write short note on the following:

- a. Unequal settlement
- b. Oversite concrete
- c. Underpinning
- d. Setting out

3. Site exploration and investigation are essential operations to be executed before erecting a building. Discuss the Why and How. [Maximum 2 pages]

4a. Define soil survey in building construction

- b. Mention 3 benefits of soil survey
- c. Briefly explain 2 methods of carrying out soil survey on site
- d. Identify 5 information contained in a bar bending schedule