

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

**2022/2023 FIRST SEMESTER EXAMINATION**

**COURSE TITLE: BUILDING CONSTRUCTION III**

**COURSE CODE: ITE 331**

**Time Allowed: 2 Hours**

**Attempt 4 questions only**

**1a.** Identify 5 possible challenges encountered in exaction and 5 safety precautions to be observed in the operation.

**b.** List 2 methods of exaction and briefly describe each noting the tools and machines for the operations.

**c.** Briefly explain two major categories of exaction and identify 3 types under each.

**2a.** Mention 5 types of concrete floor slab and briefly explain each with neat sketches.

**b.** Identify and briefly explain the operational sequence in oversite concrete floor slab construction.

**3.** Write short note on the following:

a. Settlement in foundation

b. Bar Bending Schedule [BBS]

c. Soil survey

**4a.** Site exploration and investigation are essential operations to be executed before erecting a building. Discuss the Why and How.

**b.** State 5 advantages of this operations

**5a.** Setting out is a major operation in any building construction. Briefly explain the sequential operations and tools/ equipment needed for its execution.

**b.** Briefly explain the purpose and application of DPC in building construction

**c.** List 3 DPC materials commonly used in building construction