

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
INDUSTRIAL AND TECHNOLOGY EDUCATION DEPARTMENT

2021/2022 FIRST SEMESTER EXAMINATION

COURSE TITLE: BUILDING CONSTRUCTION II

COURSE CODE: ITE 213

Time Allowed: 2 Hours

Attempt 3 Questions Only

- 1a. Construction industry worldwide, temporal works play an important role in construction of buildings and structures. Mention 5 temporal works and differentiate them by their functions.
- b. Identify 3 causes of temporal work failure and the possible solutions to each.

- 2a. With the aid of well labeled sketch show a wooden formwork of a reinforced pillar ready for casting.
- b. Metal and wooden formwork are majorly used in building sites. Mention 3 advantages and 3 disadvantages of each.
- c. List 3 characteristics of a well designed and constructed formwork for concrete work.

- 3a. Reinforced concrete is a composite material in the construction industry. Identify 5 different materials contained in it.
- b. List 6 sequential operations in concrete production. Briefly explain each of the operation

4. Write short note on the following:
 - a. Safety measures in building sites
 - b. Reinforcement bar bending schedule
 - c. Site layouts