

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF INDUSTRIAL AND TECHNOLOGY EDUCATION
FIRST SEMESTER EXAMINATION 2017/2018

Course Code: ITE 331

Course Title: Building Construction III

Instruction: Answer Four Questions Only

Time: 2 Hours

Level: 300

1. a) Draw a section through a solid ground floor with details.
b) State five (5) safety precautions to be taken during excavation to trench

2. a) Mention seven (7) types of mechanical plant used in excavation to trench
b) Define foundation and state which foundation is suitable for swampy and desert region with reasons

3. a) Explain two factors that affects clients' decision to start a building project
b) Explain the operation involve in the construction of solid ground floor

4. a) Explain in detail the function of cavity wall in a building structure
b) Mention five (5) functions of a ground floor in a building structure

5. a) State three (3) problems encountered while building in the following area
i. Gravel ii. Clay iii. Sand and silt
b) Outline three (3) main purpose of foundation

6. a) Outline the possible information to be gathered upon preliminary site investigation.
b) In a tabular form identify 4 types of soil and their field assessment of the structure.