

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
INDUSTRIAL AND TECHNOLOGY EDUCATION DEPARTMENT
2019/2020 SECOND SEMESTER EXAMINATION
COURSE TITLE: BUILDING SITE PRACTICE
COURSE CODE: ITE 542

Time Allowed: 2 Hours.

Attempt all questions

1. The School of Science and Technology Education has appointed you to supervise the setting out of a rectangular warehouse measuring 12m by 8m, using 3:4:5 method.
 - a. Describe the step by step operations you will take in executing the project.
 - b. Itemize 10 equipment / tools you will need for this project.
 - c. Briefly explain the function of profile boards in setting out.
2. Write short note on the following term and tests procedure as it relates to concrete technology:
 - a. Final setting time
 - b. Compaction factor test
 - c. Slump test
3. Concrete production is a very vital aspect of concrete technology.
Itemize 6 basic operations and briefly explain each.
4. The production of concrete involves use of aggregates.
 - a. Mention four tests that are carried out on the aggregates before batching to enhance quality control.
 - b. What apparatus can be used to carry out the initial setting time of cement test?
 - c. Briefly explain the procedures in determining the initial setting time.