

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF QUANTITY SURVEYING
FIRST SEMESTER EXAMINATION 2018/2019 SESSION

COURSE: CIVIL ENGINEERING CONSTRUCTION II

COURSE CODE: QTS 415

INSTRUCTION: ANSWER ALL QUESTION

TIME: 2hrs.

1. What are the requirements that must be followed in order to protect the sewerage system?
2. State two advantages and disadvantages of tunnel operations
 - 2b. Before any tunneling operation can begin, there are numerous factors that require detail investigation. Enumerate them.
3. List three (3) main objectives of providing ventilation system in tunnel
 - 3B. why is lighting required in a tunnel and where are they essential
4. Briefly explain what you understand by CATHODIC PROTECTION, and state two conditions under which it can be applied to pipelines.
5. With the aid of a diagram briefly explain three types of railway sleeper you know
6. Highlight the TWO most important factors to consider in positioning a Seawall.
7. Explain what you understand by the following types of dams
 - i. Arch dam
 - ii. Rock fills dam
 - iii. Steel dam