

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF ENVIRONMENTAL TECHNOLOGY  
DEPARTMENT OF QUANTITY SURVEYING  
HEAVY ENGINEERING I (QTS 514) FIRST SEMESTER EXAMINATION, 2017/2018  
SESSION

TIME ALLOWED: 2 Hour

Credit unit: 2

LEVEL: 500

INSTRUCTION: Attempt all Questions

**Question 1:**


- a. What is Heavy Engineering? ..... 5 marks)
- b. Outline all works classified as "Heavy Engineering Works" ..... 5 marks
- c. Itemize and explain the steps through which Engineering contracts are procured? ..... 5 marks

**Question 2:**

- a. Messer IMRAT HOLDINGS is proposing to embark on the construction of a Pharmaceutical factory in Minna. Identify and explain 5 financing options available for this project ... 10 marks
- b. List all plants and equipment required for "Tablets Production" in the Pharmaceutical factory ..... 10 marks

**Question 3:**

- a. What is a "Feasibility Study"? ..... 5 marks
- b. Explain in details the essentials of a Feasibility Study Report ..... 10 marks
- c. Explain in details the concept of "Patent and Copyright" for Heavy Engineering ..... 10 marks

 01/04/2018