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FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF QUANTITY SURVEYING
SECOND SEMESTER EXAMINATION, 2016/2017 ACADEMIC SESSION

COURSE TITLE: Advanced Building Measurement II

COURSE CODE: QTS 521

LEVEL: 500L

CREDIT UNIT: 3

TIME ALLOWED: 2 Hours, 50 Minutes

INSTRUCTIONS: Answer all questions; Only BESMM3 and BESMM4 are allowed.

All assumptions must be clearly and reasonably stated

Question One

The management of the Federal University of Technology, Minna is proposing to construct an additional 3-bedroom bungalow to the existing University's CORPERS' lodge. You have been consulted as a final year student of QS department of the institution to 'take off quantities' and 'prepare a draft BOQ' for the **Incoming Electrical Services (IES) and Connection to Mains**, using the attached **DRWNG No QTS521/FUM/2017/03 and Detail 'Y'** (20 Marks)

Question Two

Take off complete in Final Circuit, the internal electrical works (cables and conduits, fittings and accessories, builders' work, testing and commissioning) in the main building (**Detail 'A'**), using the attached **DRWNG No QTS521/FUM/2017/02 and Distribution Sheet** (15 Marks)

Question Three

Use the attached **DRWNG No QTS521/FUM/2017/01 and Details 'Z' and 'X'** to take off for the general lighting installation in the lodge (15 Marks)

Question Four

Using Details 'B' and 'C' on the attached **DRWNG No QTS521/FUM/2017/01**, take off quantities for the following:

- a. Electrical works associated with plumbing and mechanical installation;
- b. Standby generating set installation (10 Marks)