

WED  
13/11  
2017

135

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF ENVIRONMENTAL TECHNOLOGY  
DEPARTMENT OF QUANTITY SURVEYING

TITLE OF THE PAPER: SECOND SEMESTER EXAMINATION

ACADEMIC SESSION: 2016/2017

COURSE TITLE: CONSTRUCTION MEASUREMENT III

COURSE CODE: QTS 321

TIME ALLOWED: 2 HOURS 30 MINUTES

INSTRUCTION: ANSWER ALL QUESTIONS. READ THE QUESTIONS CAREFULLY AND CREDIT SHALL BE GIVEN TO NEAT PRESENTATION OF WORKS. ALL ASSUMPTIONS MUST BE CLEARLY STATED. UNMARKED BESMM4 NIGERIAN EDITION SHALL BE ALLOWED INTO THE EXAMINATION HALL.

QUESTION ONE

(i). What does "dotting on" connote in taking off for construction works. Use specific example to illustrate this in your answer booklet. (5marks)

(ii). The process of measurement of building or civil engineering works is often referred to as "Taking off". Enumerate the essential knowledge a taker off should possess. (5marks)

(iii). A Quantity Surveyor noticed errors in the design sent to his office by a project Architect and made frantic efforts to obtain correct information to avoid project delay. What should the QS do? Illustrate your response using typical example. (5marks)

QUESTION TWO

Using the drawing labeled FUTMX/SET/QS/2017/321-A take-off for the following:

- (i) All excavation works
- (ii) Concrete works and concrete ancillaries including tanking/damp-proof membrane to the basement. (25 marks)

QUESTION THREE

The Federal University of Technology, Minna Management as a matter of urgency require an additional one floor to be added to the existing Boys Hostel in Gidan Kwanu campus to accommodate the proposed new intakes for 2017/2018 academic session. The geotechnical engineers report revealed that the existing foundation to the external wall measuring 15 meters requires underpinning to stabilize the building by taking the foundation to firmer strata below the existing foundation. Using the drawings labeled FUTMX/SET/QS/2017/321-B provided, take-off complete for the underpinning work.

Note: No allowance is required to be made for working space according to BESMM4

(20 marks)