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DEPARTMENT OF QUANTITY SURVEYING  
FACULTY OF ENVIRONMENTAL TECHNOLOGY  
FEDERAL UNIVERSITY OF TECHNOLOGY MINNA  
FIRST SEMESTER 2016/2017 SESSION EXAMINATION

COURSE: QTS 220 (Building Measurement)

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**INSTRUCTIONS:** Answer all questions. Unmarked copy of BESMM4 is recommended for use  
**Time Allowed: 3hours**

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1. Discuss the following in relation to the general rules for Taking-off:
  - a. Preliminary study of drawing
  - b. Queries with the designers
  - c. Initial site visits
  - d. Sections of taking-off
  - e. The specification
  - f. Sequence of Measurement
  - g. Measurements for analysis of price
  - h. Use of schedules
  - i. Descriptions
  - j. Extra Over
  - k. Dimension Diagrams
  - l. PC items and Provisional Sums
  - m. Attendance
  - n. Approximate Quantities
  - o. Abbreviations **[20 Marks]**
2. The drawing with reference QTS220/16-17/01 is the foundation design of a building, given that the site is made up of firm soil, you are instructed to take-off quantities for the entire substructure of the building. **[35 marks]**
3. Explain the concept of Cost Planning in relation to building economics. **[5 Marks]**