

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



FIRST SEMESTER EXAMINATION 2017/2018 SESSION

COURSE CODE: QTS 515 **COURSE TITLE:** COST CONTROL I (Q/S & ARCH)

TIME ALLOWED: 2 Hours

CREDIT LOAD: 2 Units

INSTRUCTION: Attempt *ALL* Questions

TOTAL MARK ALLOCATED: 100

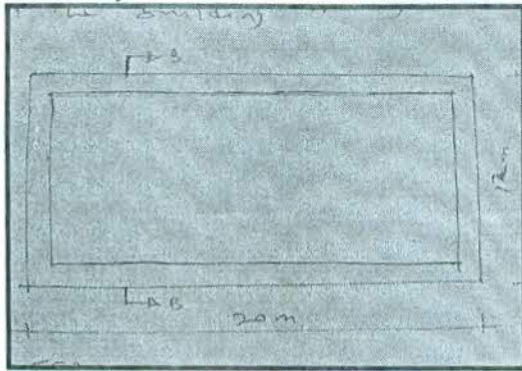
- 1a. Differentiate between cost planning and cost control. -----5 Marks
- b. One of the main aims of cost control is to achieve a balance and logical distribution of funds among various parts of the building. Discuss. -----10 Marks
- 2a. Highlight the procedure for the application of the cubic method of approximate estimating.-----5Marks
- b. As a Quantity Surveyor representing the client, you are required to prepare an elemental cost plan for a proposed project using information from a similar past project which has a total cost of =N=356,550,770:00. The table below gives the breakdown of the elemental cost plan for this previous project. You have discovered an adjustment factor of **23%** from cost research for updating the cost of each of the elements in the proposed project, except for preliminaries, substructure and services with adjustment factors of **10%**, **47%** and **30%** respectively. ----- 30 Marks

Table 2b: Cost Plan for Proposed Office Accommodation

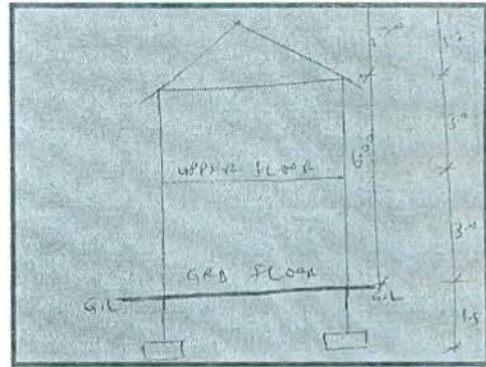
ELEMENT	PERCENTAGE OF ELEMENT (%)
Preliminaries	9.68
Substructure	15.02
Frames	27.66
Roof	7.00
Upper Floors	10.22
Walls	8.12
Services	9.84
External Work	6.00
Contingencies	6.46

- 3a. Highlight the procedure for the application of storey enclosure method of approximate estimating. ----- 5 Marks

b. Use the Storey Enclosure Method to estimate the cost of the building sketched below: ----- 20 Marks



PLAN



SECTION A - A

Specification: Building Size = 20m x 12m external dimension, wall height = 3m (each floor); Thickness of foundation footing = 225mm; foundation depth = 1.50m; roof height = 1.20m; Rate = N500/SEU.

- 4 a. What is the major difference between elemental and comparative planning methods? ----- 7.5Marks
- b. What is the major difficulty associated with the comparative cost planning method? --7.5 Marks
- c. Mention the major task of the Quantity Surveyor in each of the cost planning methods.

----- 10 Marks

GOOD LUCK