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



SECOND SEMESTER EXAMINATION 2018/2019 SESSION

COURSE CODE: QTS525 COURSE TITLE: Cost Control II

TIME ALLOWED: 2 ½ Hours

CREDIT LOAD: 3 Units

INSTRUCTION: i. Attempt all questions. ii. The Tables attached (Appendix) should be used where necessary.
1a. Differentiate between Cost Planning and Cost Control 9 Marks
b. Highlight and briefly discuss the procedure for cost control 9 Marks
c. Discuss the sources of financing construction projects 7 Marks
2a. What do you understand by Cost-in-use Studies? 7 Marks
b. What are the challenges of cost assessment in Cost-in-use Studies? 8 Marks
c. What is the present value of the running costs of a building with a life of sixty (60) years, given that annual cleaning costs are $=N=80,000.00$, annual decorations, $=N=30,000.00$ and annual repairs, $=N=20,000.00$, external painting, $=N=200,000.00$ every five (5) years, and a new roof will be required every thirty (30) years at $=N=2,000,000.00$? Interest is to be taken at six per cent (6%).
3a. i. Differentiate between Life Cycle Costing and Whole Life Cycle Costing 2.5 Marks ii. What are the key areas upon which the successful application of Whole Life Cycle Cost lies? 2.5 Marks
b. With the aid of mathematical expression and a neat diagram, illustrate the components of a Whole Life Cycle Cost Model.
c. Compare the costs – in – use of the following alternative building schemes and make a decision accordingly.
on a site costing =N=2,000,000.00. Annual running costs are estimated at =N=240,000.00. Certain services and finishing will require replacing at a cost of=N=800,000.00 every twenty (20) years. Other services have an estimated working life of thirty (30) years and a replacement cost of =N=1,000,000.00. N.B
In both cases the estimated life of the building is sixty (60) years. Take an interest rate of six per cent (6%) and an annual sinking fund (ASF) of three (3%). 4a. i. Briefly discuss the concept of Cash Flow Forecasting in relation to construction industry.
ii. Enter the following transactions in a cash flow statement for Period 7 6 Marks

2/07/2018: Loan from Bank to finance project	=	=N=1,456,000.00
5/07/2018: Sale of landed property to finance project	=	=N=312,500.00
12/7/2018: Payment for prime cost items	=	=N=789,000.00
16/7/2018: Settlement of Design & Professional fees	=	=N=80,000.00
19/7/2018: Land charges		=N=40,000.00
27/7/2018: Legal and agency fees	\ =	=N=65,000.00
F-0.5		

b. Briefly discuss the concept of Investment Appraisal.

Table 4c: Cash Flow Statement for Projects A and B

Cash Flow Year	A (=N=)	B (=N=)		
0	-100,000	-100,000		
1	30,000	50,000		
2	40,000	40,000		
3	20,000	30,000		
4	30,000	-		
5	20,000	-		