



ELIZADE UNIVERSITY, ILARA-MOKIN

FACULTY OF ENGINEERING

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

COURSE CODE: CVE 527 SESSION/SEMESTER: FIRST SEMESTER/ 2019/2020

COURSE TITLE: BUILDING TECHNOLOGY LEVEL: 500L

TIME ALLOWED: 2 HOURS

INSTRUCTION: ATTEMPT ANY FOUR QUESTIONS

Question 1 (15 marks)

- 1a. i. Adduce reason for the uniqueness of Civil Engineering structures. (2 marks)
- ii. Why is it that the promoter normally alters the works design. (2 marks)
- ii. What do you understand by Construction management and what does it aim at? (3 marks)
- 1b. i. State the characteristics that are unique to the planning of constructed facilities, which should be kept in mind even at the very early stage of the project life cycle. (5 marks)
- ii. Draw a schematic diagram to adopt a primary emphasis on either cost control or on schedule control developing a construction plan. (3 marks)

Question 2 (15 marks)

- 2a. i. What do you understand by the Engineer's or Architect's estimate? (2 marks)
- ii. Explain the meaning of Innovation and Technological Feasibility (3 marks)
- 2b. What constitute the capital cost for a construction project including the expenses related to the initial establishment of the facility? (10 marks)

Question 3 (15 marks)

- 3a. Enumerate six methods commonly used to prepare preliminary estimates. (6 marks)
- 3b. i. Why is it that the choices of appropriate technology and methods for construction critical ingredients in the success of the project? (4 marks)
- ii. Draw a sketch of planning input and output. (5 marks)

Question 4 (15 marks)

- 4a. i. Define Project network. (1 mark)
- ii. With neat sketches of basic pattern, explain in details two ways that are commonly used to draw a network diagram for a project. (8 marks)
- 4b. The precedence table for activities involved in producing a computer game is shown in Table 1. An activity on a network is to be drawn to model this production process. Explain why it is necessary to use at least two dummies when drawing the activity network. Draw the activity network using exactly two dummies.

Table 1: Precedence activity

Activity	Must be preceded by
A	
B	
C	B
D	A, C
E	A
F	E
G	E
H	G
I	D, F
J	G, I