

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF APPLIED CHEMISTRY
END OF SEMESTER EXAMINATIONS – MAY 2002
PROJECT DEVELOPMENT AND MANAGEMENT – SCH 4210
TIME – (3) THREE HOURS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions from Section A and **ANY THREE** questions from Section B.
Section A carries 40 marks and Section B carries 60 marks. Total marks = 100.

SECTION A (Answer all questions)

1. Briefly describe the following:

- (a) WBS
- (b) Responsibility matrix
- (c) Events and milestones
- (d) Gant's charts

(10 marks)

2. A detailed Systems Specification has two categories:

- (a) User requirements
- (b) Systems requirements

Describe what you understand by the two specifications.

(20 marks)

3. Briefly explain the following:

- (i) Compatibility
- (ii) Commonality
- (iii) Cost effectiveness
- (iv) Reliability
- (v) Maintainability
- (vi) Testability

(10 marks)

SECTION B

1. Describe the four stages of the Systems Development Cycle. Show to detail within each phase the critical elements to be considered. (20 marks)

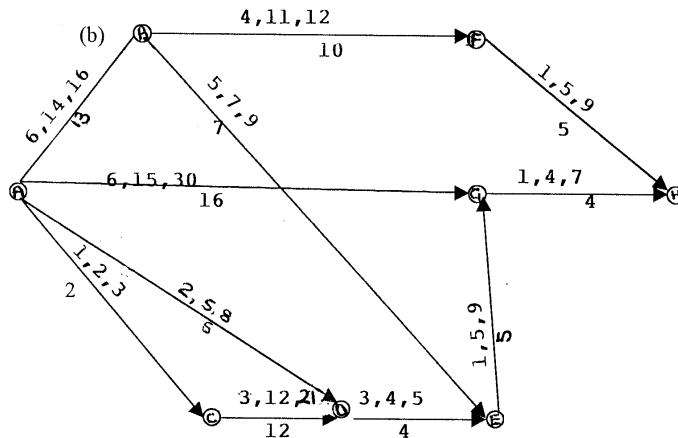
2. (a) **PROJECT A**

Activity Immediate Predecessor

I	-
K	I
J	I
L	K
M	L
N	L
O	L
P	M, N, O

Draw the AON Network Diagram.

(10 marks)



What is the probability of completing the project in 25 days.

(10 marks)

3. What is the IRR for the following project.

<u>YEAR</u>	<u>CF</u>
0	-5 000
1	9 000
2	12 000

Cost of capital = 15%.

(20 marks)

4. Explain the Work Breakdown Structure in the Planning and Control Process and describe what is in the typical work package. (20 marks)

END OF QUESTION PAPER!!!