

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF APPLIED CHEMISTRY

END OF SECOND SEMESTER EXAMINATIONS - APRIL/MAY 1999

PROJECT DEVELOPMENT AND MANAGEMENT - SCH 4210

TIME: THREE HOURS

SECTION A - (Answer all questions)

1. Define what a project is and give its *three* objectives. (5 marks)
2. With reference to Fig.2 determine the earliest event times (EET) and the latest event times (LET) assuming that the LET of the final event is the same as its EET. (5 marks)
3. With the aid of a diagram show how a project plan is communicated using A-O-A format with four activities where B, C, and D cannot start until A has been completed. (5 marks)
4. Briefly describe *five* benefits of project planning. (5 marks)
5. With the aid of a diagram show the project as a conversion process. (10 marks)
6. What is a Work Breakdown Structure and what are its advantages and disadvantages. (10 marks)

SECTION B – Answer any three questions (60 marks)

1. You have recently been appointed as the Product Development Manager by Incredible Chemicals and the Managing Director has tasked you with developing a new product. Describe how you would gather the necessary data and outline the factors that you would take into consideration before a decision is made to launch the product.
(20 marks)
2. With the aid of a diagram discuss the project cash flow over the product's life and describe the factors that influence the shape of the graph at each stage.
(20 marks)
3. However conceived, no new design project is taken nor substantial resources committed to it until it has been evaluated as objectively as possible. Describe the systematic evaluation procedure followed giving examples.
(20 marks)
4. Write short notes on *any three* of the following:
 - (i) Use of consultants within the project
 - (ii) Project documentation
 - (iii) Project risk analysis
 - (iv) Project management software and information systems.
(20 marks)
5. Identify a personal project and discuss giving local examples how inputs, outputs, constraints and mechanisms can affect its implementation.
(20 marks)

END OF QUESTION PAPER!!!