



# NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF APPLIED CHEMISTRY

PROJECT DEVELOPMENT AND MANAGEMENT

SCH 4210

Supplementary Examination Paper

August 2017

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements:

Examiner's Name: Mr Donatus Dube

## INSTRUCTIONS

1. Answer any five (5) questions
2. Each question carries 20 marks
3. Use of calculators is permissible

## MARK ALLOCATION

QUESTION	MARKS
1.	20
2.	20
3.	20
4.	20
5.	20
6.	20
<b>TOTAL POSSIBLE MARKS</b>	<b>100</b>

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1. (a) List six possible instigators of projects. (6 marks)  
(b) Briefly outline the various steps that are taken during a project feasibility study. (14 marks)
2. (a) How does project management fit in the overall strategy of a company? (6 marks)  
(b) What conflict of interest may occur between the Project Manager and Functional Managers in an organisation? (6 marks)  
(c) How can these conflicts be managed? (4 marks)  
(d) List **four (4)** roles of the Project Manager. (4 marks)
3. A medium sized company B and S Chemical Manufacturers (Pvt) Limited is considering to introduce a new chemical product into the market. The project will cost them \$90 million to start. All of this money will have to be borrowed at an annual interest rate of 28%. The cash flows are projected to be as follows:  
  
\$40m – 1<sup>st</sup> year, \$20m – 2<sup>nd</sup> year, \$20m – 3<sup>rd</sup> year, \$15m – 4<sup>th</sup> year and \$15m – 5<sup>th</sup> year.  
(a) Provide a learned advice to the company as to whether or not they should proceed with this project. (16 marks)  
(b) What are the shortcomings of the numerical models of project selection? (4 marks)
4. (a) Graphically present the Project Life-Cycle Structure. (4 marks)  
(b) To which part of the structure are maximum resources needed and why? (6 marks)  
(c) What factors influence the shape of the Project Life-Cycle Cash Flow Curve? (10 marks)
5. Describe the elements of a Project Close-out Report. (20 marks)

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6. You have been approached by Mr S Sivuno, an entrepreneur, who would like to invest in a project to produce canned tomatoes. Develop guidelines for him on how he should compile his project proposal. (20 marks)

*End of question Paper!!!*