NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

APPLIED PHYSICS DEPARTMENT

SPH 4201 - MANAGEMENT AND QUALITY ASSURANCE SUPPLEMENTARY EXAMINATION

BSc HONOURS PART IV: JULY 2014 DURATION: 3 HOURS

1. (a)

(b)

(i)

(ii)

(iii)

ANSWER <u>ALL</u> PARTS OF QUESTION <u>ONE</u> IN SECTION A AND ANY <u>THREE</u> QUESTIONS FROM SECTION B. SECTION A CARRIES 40 MARKS AND SECTION B CARRIES 60 MARKS.

SECTION A

Explain the term organisation as applied in management.

Why must organisations emphasise on having a structure?

[8]

[2]

[3]

[4]

Distinguish between quality assurance and quality control.

List three ways of structuring a business.

	(e)	Explain what is meant by the term specialisation in the concept of organiss structure.	sational 7]		
	(e) (f)	Phillip Crosby declared, "Quality is for free". Explain the statement with the air	[6] id of a [10]		
SECTION B					
2.	(a)	List down and explain the six steps of quality control process [10]		
	(b)	(ii) Explain with the aid of a diagram the process capability indices. In your dictional clearly show the lower and upper specification limits, target value and a	_		
3.	You have been offered a Laboratory job as QA officer at NUST. It is your duty to see to 5 years time, the laboratories will have to undergo the process of accreditation. You need comprehensive Quality Assurance Plan in order to achieve this.				
	(a)	Explain what you understand by accreditation and why is it important for any laboratory to undergo this process.	[2]		
	(b)	-	[10]		
	(c)	Discuss the role of Science Technicians in ensuring quality in laboratories manufacturing processes.	es and [8]		
		1			

4	(a)	With reference to quality assurance, discuss the responsibility of management.	
	(1-)		[10]
	(b)	Outline the role of marketing in the design of products and services.	[10]
5.	(a)	Discuss the role that an organisation can adopt to ensure that quality is everesponsibility.	eryone's [12]
	(b)	How can companies use the Quality vaccine to prevent non-conformance.	[8]
6.	(a)	Explain why it is important for Organisations to have ISO accreditation?	[6]
	(b)	"ISO 9 000 is not compulsory and so neither is business survival compulsory"	
		Comment on the above statement and justify the growing importance of quality.	[14]

END OF PAPER