



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF APPLIED CHEMISTRY

PROFESSIONAL STUDIES FOR SCH ONLY

SCH 1103

First Semester Examination Paper

December 2017

This examination paper consists of 3 printed pages

Time Allowed: 3 hours  
Total Marks: 100  
Special Requirements: None  
Examiner: Mr M. Moyo

### **INSTRUCTIONS & INFORMATION**

1. Answer **all** questions in Section A and **any three** questions from Section B.
2. Section A carries 40 marks and each question in Section B carries 20 marks.
3. Answers to questions in Section B should be presented in **essay or continuous writing** form. Importance should be attached to accuracy, clarity of expression and legibility of handwriting, NOT LENGTH.

### **MARK ALLOCATION**

QUESTION	MARKS
1.	40
2.	20
3.	20
4.	20
5.	20
6.	20
7.	20
<b>TOTAL POSSIBLE MARKS</b>	<b>100</b>

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SCH 1103

## **SECTION A: COMPULSORY**

(Answer the entire question)

### **QUESTION 1**

- (a) What are the **four (4)** windows of the Johari Window Model of Communication and what does each window stand for?  
[4 marks]
- (b) List **five (5)** considerations to be made when selecting a research topic.  
[5 marks]
- (c) Describe **three (3)** stages of a debate presentation by the first speaker on the affirmative side.  
[6 marks]
- (d) Describe **two (2)** ways in which experiments can be controlled.  
[4 marks]
- (e) Draw a flowchart that outlines the process of conducting a literature review.  
[8 marks]
- (f) What are the **three (3)** essential components of an introductory paragraph when writing an essay?  
[6 marks]
- (g) Explain **four (4)** criteria to be considered when going for an interview.  
[4 marks]
- (h) State **three (3)** reasons for citing and referencing.  
[3 marks]

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## **SECTION B: ELECTIVE**

(Answer any three questions)

### **QUESTION 2**

Distinguish between the value of formal and informal communication networks in your chosen career.

[20 marks]

### **QUESTION 3**

In what ways is computer mediated communication an essential component of learning in the 21<sup>st</sup> century?

[20 marks]

### **QUESTION 4**

To what extent can non-verbal communication be considered an integral part of oral communication?

[20 marks]

### **QUESTION 5**

With the aid of a detailed example, explain the meaning of the term hypothesis and describe the characteristics of a hypothesis.

[20 marks]

### **QUESTION 6**

Discuss the reasons for preferred use of reference management software such as Mendeley, Endnote, Qiqqa and Zotero.

[20 marks]

### **QUESTION 7**

You have been invited to orally present the findings of your research for which you decide to use Microsoft PowerPoint as a delivery tool. Discuss **five (5)** points that would help ensure your slides support what you are saying in your presentation.

[20 marks]

***End of Question Paper.***

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