



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY
DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

FIRST SEMESTER 2018/2019 EXAMINATION

COURSE CODE: CIT 415
COURSE TITLE: INTRODUCTION TO SCIENTIFIC RESEARCH
WRITING AND METHODOLOGY
CREDIT UNITS: 2
TIME ALLOWED: 2HRS
COURSE LECTURER(S): Dr. I. O. Oyefolahan and Mrs S.O. Etuk
NUMBER OF QUESTIONS: 5
NUMBER OF PAGES: 2 (INCLUDING THIS PAGE)

INSTRUCTIONS

- Answer any **three (3)** questions
- Do not use red pen
- Please use a clear handwriting
- This exam is closed book, closed notes, closed laptop and closed cell phone



1. (a) Define the following:
 - i. Science ii. Research iii. Theory 3mks

(b) Mention and explain four (5) possible ways you can get a research idea. 6mks

(c) Explain five (5) characteristics of a good research 5mks

(d) mention and explain any five (5) types of Research 6mks

2. (a) Define the following:
 - i. Research problem ii. Hypotheses iii. Fallacy iv. Variables 4mks

(b) In the absence of a clear research problem, a clear economic plan is impossible. Therefore, as a research student who needs to select a research problem; mention at least six (6) considerations will you keep in mind to ensure that your study will be manageable and keep you motivated throughout. 6mks

(c) Mention and explain the eight (8) steps involved in the scientific process of Research 10mks

3. (a) What is an Abstract? 5mks

(b) Explain five (5) steps you will take to write a good abstract 5mks

(c) List and explain the main nine (9) generic element of a technical report 10mks

4. (a) What is a sample design? 5mks

(b) When is a *Systematic Bias* said to occur in sampling? 5mks

(c) Differentiate between random sampling and stratified sampling 5mks

(d) Briefly write short note on the following as regards to sampling:

 - i. Universe ii. Sampling Unit iii. Source list iv. Sample size v. Sampling Procedure 5mks

5. (a) Give three (5) reasons why literature review is very important to a researcher. 5mks

(b) What is plagiarism? 5mks

(c) Explain two (2) techniques you will adopt in order to avoid being accused of plagiarism 5mks

(d) Explain 10 most common types of plagiarism. 5mks