

CHUKA



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**EXAMINATION FOR THE AWARD OF DEGREE OF
DIPLOMA IN PROCUREMENT AND LOGISTICS MANAGEMENT**

DIBM 0251: RESEARCH METHODS

STREAMS: DIBM, DPLM Y2S1

TIME: 2 HOURS

DAY/DATE: TUESDAY 03/12/2019

11.30 AM – 1.30 PM

INSTRUCTIONS:

Answer Question One and any other Two Questions

Question One

- (a) A student who wants to carry out a scientific research, has come to you to give them advice on what is research and the objective of carrying out research.
- (i) Explain the purpose of carrying out scientific research [8 marks]
 - (ii) Describe the characteristics of research objectives [8 marks]
 - (iii) Using an illustration differentiate between a dependent and independent variable. [6 marks]
- (b) There can be various sources of error in measuring data which would eventually lead to wrong conclusion of research findings. Describe 4 sources of errors in measurement. [8 marks]

Question Two

- (a) Explain the importance of undertaking literature review and the dangers that a study is likely to face if an effective literature review is not done. [8 marks]
- (b) Clearly explain the characteristics of scientific research [5 marks]
- (c) A population is composed of 78 males and 42 females. Explain how can select a sample 30 from this population using
- (i) Systematic sampling procedure
 - (ii) Two-stage cluster sampling procedure

From your answer in (C) above; explain the technique that produced a more representative sample. [7 marks]

Question Three

- (a) A researcher can use various ways of gathering information for research either from the field or from a lab. Clearly discuss 4 ways of gathering information. [8 marks]
- (b) Outline the steps involved in carrying out scientific research. [4 marks]
- (c) Validity and Reliability together they measure the objectivity of a study. Validity ensures reliability but reliability does not ensure validity. High reliability is a necessary condition for validity but alone is not sufficient. Discuss. [8 marks]

Question Four

- (a) Discuss 4 ways unethical issues can arise when conducting research. [6 marks]
 - (b) A researcher can choose to use various research designs in determining the methodology of collecting and analyzing data. Clearly describe any 4 types of research designs. [8 marks]
 - (c) Using an illustration, differentiate between a research questions and research hypothesis. [6 marks]
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