



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER MAIN EXAMINATIONS

FOR THE BACHELOR OF RENEWABLE ENERGY AND BIOFUELS TECHNOLOGY

COURSE CODE: IET 391

COURSE TITLE: RESEARCH METHODS

DURATION: 2 HOURS

DATE: 16/10/2018 **TIME:** 9 – 11Am

INSTRUCTIONS TO CANDIDATES

Answer **QUESTION ONE** (Compulsory) and any other two (2) Questions.

Indicate **answered questions** on the front cover.

Start every question on a new page and make sure question's number is written on each page.

This paper consists of 3 printed pages. Please Turn Over



QUESTION ONE

- a) Discuss the importance of literature review in a research proposal. (10 marks)
- b) Discus the following terms as used in research
- i) Accessible population (4mks)
- ii) Target population (4mks)
- ii) Sampling error (4mks)
- c) Discuss the ethical issues that a researcher has to consider while carrying out research relating to:
- i)The respondents
- (4 marks)
- ii)The team members
- (4 marks)

QUESTION TWO

- a) Briefly explain five characteristics of scientific research. (10marks)
- b) During the last two decades, there has been a dramatic change in the business environment. The trend towards complexity has increased the risk associated with business decisions, making it more important to have a sound information base. In view of the above statement, discuss the role of research in today s organizations (10 marks)

OUESTION THREE

- a) Differentiate between the following terms as used in research
- i) Reliability and Validity (3 marks)
- ii) Pure research and applied research (2 marks)
- b) Discuss the various sampling techniques that a researcher may use to select a sample from the population giving an advantage and disadvantage for each. (15 marks)

OUESTION FOUR

- a) Briefly explain five factors that should be taken into consideration by a researcher in selecting an appropriate method for data collection. (10 marks)
- b) Define the term response rate and why is it important to have a high response rate in research study. (10mks)

QUESTION FIVE

- a) Discuss the reasons why it is important to write a research proposal before engaging in any field research exercise. (10 marks)
- b) Compare and contrast questionnaires and interviews as instruments of collecting primary data. (11 marks)