

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE IN BIOLOGICAL SCIENCES

3rd YEAR 2nd SEMESTER 2018/2019 ACADEMIC YEAR MAIN CAMPUS - REGULAR

COURSE CODE: SBI 3325

COURSE TITLE: RESEARCH METHODS

EXAM VENUE: BIO LAB STREAM (BIO)

DATE: 23/04/2019 EXAM SESSION:12.00-2.00PM

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B
- 2. Candidates are advised not to write on question paper
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

- 1. Describe three factors that motivate the interest of conducting a scientific research (3 marks)
- 2. Justify why scientific research should be encouraged in Kenya (3 marks)
- 3. Describe three qualities of a good researcher (3 marks)
- 4. Outline three factors that influence response rate when using survey as a method of collection (3 marks)
- 5. Describe three data collections techniques involved in qualitative research (3 marks)
- 6. Differentate between a cross-sectional and longitudinal study (3 marks)
- 7. Describe three qualities of a good research design (3 marks)
- 8. Describe three principles of a good experimental design (3 marks)
- 9. Give three reasons as to why the research process needs to be understood clearly (3 marks)
- 10. State three sources of research topics (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

- 11. Explain the importance of sampling and the different types of sampling designs (20 marks)
- 12. Discuss six characteristics of a research mindset and eight problems likely to encountered while conducting a scientific research in Africa (20 marks)
- 13. Discuss the three types of research based on purpose (20 marks)
- 14. Highlight and describe major steps involved in the process of scientific research.

(20 marks)