MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER

SCHOOL OF TOURISM & NRM
BACHELOR OF WILDLIFE MANAGEMENT

COURSE CODE: WRM 3206
COURSE TITLE: FUNDAMENTALS OF RESEARCH

DATE: 24TH APRIL 2019 **TIME: 11:00AM-1:00PM**

INSTRUCTIONS TO CANDIDATES

Answer **All** the Questions in Section A and any **THREE** IN SECTION B

*This paper consists of **TWO** printed pages. Please turn over.*

SECTION A: Answer all questions (25 MARKS)

1. Differentiate between the following terms **[5 marks]**
   (I) Replication and pseudoreplication; (II) Objective statement and subjective statement; (III) dependent variable and independent variable; (IV) Inductive method and deductive method; (V) Sampling design and experimental design

2. Describe the critical components of an Abstract when writing a research proposal [**5 marks]**

3. A reputable Journal published a total of 760 citable items between January 2014 and December 2015. In the subsequent year (2016), there were a total of 5500 citations from articles published in the journal between January 2014 and December 2015.
   I. Calculate the Thomson Reuters (formerly ISI) Impact Factor for this Journal in 2016 [**1 mark**]
   II. What is the significance of Impact factor to;
      a. a Journal [**1 mark**]
      b. Authors [**1 mark**]
   III. List two concerns regarding the use of Impact Factor [**2 marks**]

4. Explain the relevance of each of the following terms/processes in research **[5 marks]**
   i. Peer review process in publishing research writing
   ii. Plagiarism
   iii. Replication in designing a research project
   iv. Randomization in designing a research project
   v. Citations and referencing

5. (a) Differentiate internal from external validity in research **[1 mark]**
   (b) A scientist set out to evaluate polluted stream water for its effect on fish lesions. She set up two aquaria, each with 50 fish. She randomly assigned a water treatment (polluted vs. control) to each of the aquaria. After 30 days, she caught 10 fish from each aquarium and counted the number of lesions. Indicate what the experimental and sampling units are in the experiment and why **[4 marks]**

SECTION B: Answer any 3 questions (45 MARKS)

6. Discuss, using illustrative examples, different types of research based on the purpose of research **[15 Marks]**

7. Describe the various types of research based on; i) data collection techniques, ii) use of the research, and iii) the time dimension of the research **[15 Marks]**

8. With the aid of illustrations and examples, describe the various sampling designs used in research **[15 Marks]**
9. Describe the logical sequence of a research process **[15 Marks]**

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