MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2021/ 2022 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER

SCHOOL OF TOURISM, FORESTRY AND WILDLIFE MANAGEMENT.

COURSE CODE: URP 2115-1

COURSE TITLE: STATISTICS FOR PLANNERS.

DATE: 13/12/2023   TIME: 0830-1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO questions

This paper consists of FOUR printed pages. Please turn over.

QUESTION ONE

a. Explain three functions of statistics **(3 marks)**

b. Give three advantages of arithmetic mean **(3 marks)**

c. Differentiate between a variable and a constant **(2 marks)**

d. The following set of data refers to the amount of money in shillings taken by a news vender for 6 days. Determine the mean and median of the data {27.90, 34.70, 54.40, 18.92, 47.60, 39.68} **(4 marks)**

e. Consider the data below, use it to construct a steam and leaf distribution **(5 marks)**

54	30	57	29	35	22	50	20	22
30	23	32	53	25	24	42	25	43
15	11	53	24	42	21	43	14	21
23	40	24	44	53	24	20	18	55
18	23	11	20	19	40	32	22	52

f. Give the appropriate graphs for the following variables **(3 marks)**

   i. Gender

   ii. Income

   iii. Income grouped by Age

QUSETION TWO

a. Differentiate between probability and non-probability sampling techniques **(2 marks)**

b. You have been appointed as an Urban planner by your county government to investigate the belief that Covid19 has affected the county's economy. Write a letter to the county government explaining the steps you will follow to assess this belief **(10 marks)**

c. Group the following variables into the appropriate level of measure **(3 marks)**

   i. Medal award in an Olympic game

   ii. Temperature in ^0C

   iii. Religion

QUESTION THREE

a. Below is an extract of a survey questionnaire use it to answer the questions that follows;
   Kindly fill in the following details about yourself
   1. Name:_____
   2. Marital status

   Single [ ] Married [ ] Divorced [ ] Widowed [ ] Separated [ ]
   3. Highest level of education

   No schooling [ ] Primary [ ] Secondary [ ] Middle level college [ ]
   Bachelor's degree [ ] Masters [ ] PhD [ ]
   4. Phone number:_____
   5. HIV/AIDs Status

   Positive [ ] Negative [ ] Unknown [ ]
   b) What did you do on 10th of February 7 years ago?

   c) "Excessive consumption of alcohol is harmful to someone's health". Do you think it's good for an individual consume alcohol?
   Yes [ ] No [ ]
   d) Do you dislike alcohol and like smoking?

   Yes [ ] No [ ]
   e) What is the temperature of your body?

Question:
    i. Discuss any five failures of the author of this questionnaire with regard to its construction **(10 marks)**
    ii. As a planner, you are requested to select 30 students from 120 students to fill the above questionnaire. Explain how this can be done using SRS and systematic sampling separately **(5 marks)**

QUESTION FOUR

a. Give the data in the following table. Calculate;

     i.   Mean grade   **(2 marks)**

    ii.   Modal grade   **(3 marks)**

   iii.   Median grade   **(3 marks)**

    iv.   Variance and standard deviation of the grade   **(3 marks)**

    v. 90TH Percentile   **(2 marks)**

    vi. 4TH Decile   **(2 marks)**

Grade	50 - 59	60 - 69	70 - 79	80 - 89	90 - 99	100 – 109	110 - 119
Frequency	7	81	192	312	218	82	18

/END/