KIBABII UNIVERSITY

UNIVERSITY EXAMINATION
ACADEMIC YEAR 2020/2021

SECOND YEAR SECOND SEMESTER REGULAR EXAMINATION

DOCTOR OF PHILOSOPHY IN EDUCATIONAL MANAGEMENT AND POLICY STUDIES / EDUCATIONAL PLANNING AND MANAGEMENT

COURSE CODE: EPM 914

COURSE TITLE: Basic Education Statistics

DATE: 8th OCTOBER, 2021 TIME: 2.00-5.00 **DURATION:** 3 HOURS

INSTRUCTIONS TO CANDIDATES

Answer Question One (compulsory) and Any other TWO (2) Questions

1. (a) Give the level of measurement of each of the following variables: (3 marks)
   i) A person's nationality (Kenyan, Mexican, Chinese, Ethiopian, Australian, etc.),
   ii) a person's score on a standard IQ test,
   iii) A person's place on a waiting list (first in line, second in line, etc.).
   (b) What is the difference between a discrete and a continuous variable? (2 marks)

(c) Ten first-year university students rated their interest in graduate school on a scale from 1 = no interest at all to 6 = high interest. Their scores were as follows: 2, 4, 5, 5, 1, 3, 6, 3, 6, 6.
   (i) Make a Frequency Table (2 marks)
   (ii) Make a Histogram (3 marks)
(e) Name and define three measures of central tendency. For the following scores, find the three: measures of central tendency 5, 3, 2, 13, 2. (10 marks)

Column – (Gender)

(15)

2. The score of an achievement test of 50 students are as follows :

Scores	*Frequency*
70-74	2
65-69	4
60-64	5
55-59	6
50-54	7
45-49	11
40-44	9
35-39	3
30-34	2
25-29	1

Caro – 2019 Sept

Keys

a) Calculate the mode (4marks)

b) Give the four Characteristics of Mode : (4 marks)

c) Calculate the mean (5 marks)

d) Give the advantages using mean. (3 marks)

e) Explain in what condition median is better measure of central tendency than mean. (4 marks)

3. Find rank correlation coefficient from the following data and interpret the results. (20 marks)

Individuals	A	B	C	D	E	F	G	H
Marks in History	55	60	45	40	52	39	38	65
Marks in Geography	62	53	55	48	45	50	42	54

4. Consider the following group of scores: (20 marks)

Group A: 10, 20, 20, 20, 20, 20, 20, 20

Group B: 3, 4, 7, 8, 9, 10, 11, 12

(a) Find the range and the standard deviation for each of the two groups. Which group has less dispersion based on the range? Which of the two groups has less dispersion based on the measure of the standard deviation? (10mks)

(b) Calculate for the CV for each of the two groups. (10mks)

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1. Carolyne – 2019
2 Priscilla
3. James D.
4. Isabella
5 Villance
6 Carolyne Namurone
7 Emily Cimiyu
8. Wanjiru Enyw
Fred Simiyu

Leah Lokalg – 22
Otieno – 21
Otibine – 21
Pamela Nyongesa –
Sikuku Martin –
Sitienei Benard –
Rose Kapukha – 2022
Preston Simiyu –