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KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
SECOND YEAR SEMESTER ONE
SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION
ARTS/SCIENCE

COURSE CODE: PSY 311

COURSE TITLE: MEASUREMENT AND EVALUATION

DATE: 05/02/21

TIME: 2:00 - 4:00 PM

INSTRUCTIONS TO CANDIDATES

Answer question ONE and ANY TWO questions from the remaining

DURATION: 2Hours

KIBABII observes ZERO tolerance to examination cheating



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

YEAR ... SEMESTER 1

SPECIAL/SUPLIMENTARY EXAMINATION

FOR POST GRADUATE DIPLOMA IN EDUCATION

COURSE CODE: PSY 713

**COURSE TITLE: EDUCATION MEASUREMENT AND
EVALUATION**

DATE: 18/9/2020

TIME: 9am-12pm.

INSTRUCTIONS TO CANDIDATES

Answer Question One and Any other TWO (2) Questions

TIME: 2 Hours

1).The following were the scores obtained by 50 Form II students in a mathematics test.

49 63 59 44 49 51 62 37 30 49 45 52 50 42 54 32 57
 41 42 56 44 46 63 44 40 50 46 53 48 37 46 53 68 36
 40 56 37 66 43 40 43 51 59 42 52 46 57 35 43 62

- Make a grouped frequency distribution using class size (i) = 5 and start with 30 – 34 as the lowest class interval. Indicate the class-mark, actual limits for each class interval and cumulative frequencies below and above.(7mks)
- Plot a histogram and frequency polygon for this data.(6mks)
- Draw an ogive for the distribution.(3mks)
- Comment on the distribution of the scores .(2mks)

(e)For grouped data, determine the following:

- Mode (1mk)
- Median (3mks)
- Mean (3mks)
- Variance and standard deviation(3mks)

d) Determine the range for grouped data. (1mk)

2. a) Suppose the following were scores of a small class in two tests, test A and test B. test A is taken as variable X and while test B is taken as variable Y

Student	Test A (X)	Test B (Y)
Muchoki	5	4
Wanjala	6	6
Otieno	5	5
Langat	3	2
Juma	2	3
Osoro	3	4

- Plot a scatter diagram 4mks
 - Compute the Pearson product-moment correlation coefficient r_{xy} A and B for the class. Interpret the value of r_{xy} . (6mks)
- b) Discuss five factors that affect reliability of a test giving examples (10mks)

3). Discuss the strength and weaknesses of objective and easy tests (20mks)

4) Using relevant examples discuss the following in light of educational measurement.

- a) Inferential statistics and descriptive statistics. (3 marks)
 - b) Estimator and parameter (3 marks)
 - c) Continuous variable and discrete variable (4 marks)
 - d) Evaluation and measurement (4 marks)
 - e) Reliability and validity (4mks)
 - f) Difficulty index and discrimination power (2mks)
- 5) In a mock examination, the overall mean score was 100 and the standard deviation 20. Assuming that the scores were normally distributed and the classes which did the mock had 200 pupils altogether:
- (a) How many pupils scored marks between 80 and 120? (4mks)
 - (b) How many scored between 110 and 120? (3mks)
 - (c) Which score separates the upper 20% of scores from the lower 80 in the mock examination (5mks)
 - (d) Describe the four scales of measurement (8mks)