**BACHELOR OF EDUCATION ARTS WITH IT**

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**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF EDUCATION**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS) WITH IT**

**4TH YEAR 1ST SEMESTER 2017/2018 ACADEMIC YEAR**

**KISII CAMPUS- FULLTIME**

**COURSE CODE: PSY 410**

**COURSE TITLE: TESTS AND MEASUREMENTS**

**EXAM VENUE: STREAM: (BED)**

**DATE: EXAM SESSION: DECEMBER 2017**

**TIME: 2 HOURS**

**Instructions:**

1. **Answer Question ONE (COMPULSORY) and ANY other 2 questions**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**QUESTION 1**

1. Define the following terms:
2. A test (2mks)
3. Instructional objectives (2mks)
4. Reliability (2mks)
5. The following were the scores obtained by a form TWO class in an English test:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 49 | 63 | 59 | 44 | 49 | 51 | 62 | 37 | 30 | 49 |
| 53 | 68 | 36 | 57 | 32 | 54 | 42 | 50 | 52 | 45 |
| 46 | 37 | 48 | 53 | 46 | 50 | 40 | 44 | 63 | 46 |
| 56 | 42 | 41 | 40 | 56 | 37 | 66 | 43 | 40 | 44 |
| 63 | 46 | 63 | 44 | 40 | 56 | 43 | 40 | 51 | 69 |
|  |  |  |  |  |  |  |  |  |  |

1. Group this data starting with 30-34 as the lowest class (5mks)
2. Using i) above calculate the mean, modal class and median (8mks)
3. Comment on your answers in ii) above (3mks)
4. Briefly discuss any FOUR uses of tests in an education system (8 mks)

**QUESTION 2**

1. Briefly discuss any FIVE characteristics of a good test (10mks)
2. Briefly discuss any FIVE types of tests (10mks)

**QUESTION 3**

1. Briefly discuss the differences between criterion and norm referenced testing (8mks)
2. When evaluating the quality of items, different criteria are used. Discuss any THREE such criteria. (12mks)

**QUESTION 4**

1. In a class of 48 students, 18of the students got a question correctly. Calculate the difficulty index level (4mks)
2. Briefly explain your answer in a) above (2mks)
3. Briefly discuss any FIVE factors influencing validity (10mks)
4. Briefly discuss any Two types of validity (4mks)

**QUESTION 5**

The table below shows distribution of marks for 50 candidates in an examination.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Marks**  | **0-9** | **10-19** | **20-29** | **30-39** | **40-49** | **50-59** | **60-69** | **70-79** | **80-89** | **90-99** |
| Number of candidates | 3 | 4 | 4 | 5 | 10 | 8 | 6 | 5 | 4 | 1 |

Calculate;

1. Variance (8 mks)
2. Standard deviation (4 mks)
3. Briefly comment on your answer in a) and b) above (3mks)
4. In a class of 100 students, the mean of a test is 15 and standard deviation is 2.5.Assuming these 100 scores have a normal distribution, how many scores lie between 12.5 and 17.5? (5mks)