JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
UNIVERSITY EXAMINATION FOR THE DIPLOMA BUSSINES ADMINISTRATION
FOR 2ND YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR

KENDU BAY LEARNING CENTRE

COURSE CODE: BBM 2216

COURSE TITLE : STATISTICS AND QUANTATIVE METHODS IN BUSINESS STUDIES

VENUE: **STREAM:**

DATE : **EXAM SESSION:**
TIME : 1 ½ HOURS

Instructions:

1. Answer question 1 (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.

Q 1. a) Define statistics **(5marks**)

b) State five functions of statistics **(5marks)**

c) What is the difference between inferential statistics and descriptive statistics **(5marks)**

d) State the measures of dispersion **(5marks)**

d) Explain the following concepts as used in statistics **(10 marks**)

i) Population

ii) Parameter

iii) Variable

Q2 a) Distinguish between mean, mode and median **(10 marks)**

b) Calculate the mean and standard deviation from the data below **(10 marks)**

Scores	6	7	8	9	10	11	12
Frequencies	3	6	9	13	8	5	4

Q3. Given the following data.

X	2	3	5	6	8	9
Y	6	5	7	8	12	11

a) Calculate the pearson's moment correlation coefficient **(10 marks)**

b) Draw a scatter diagram **(7 marks)**

c) Comment on the relationship between **x** and **y** **(3 marks)**

Q4.a) State the procedure in computing chi- square test **(10 marks)**

b) Quinne was administered to 812 persons out of 3248 patients. The number of fever cases is given bellow.

Treatment	**Fever**	**No fever**	**Total**
Quinne	20	792	**812**
No Quinne	220	2216	**2436**
Total	**240**	**3008**	**3248**

With the help of chi- square test , test the usefulness of quinne in checking malaria.

The chi-square value at 5% level of significance for 1 degree of freedom is 3.84. **(10 marks)**

Q5.a) Give at least five uses of index numbers **(10 marks)**

b) Calculate the index number of crime for 2009 with 2008 as the base. **(10 marks)**

	2008	**2009**	**weight**
Robberies	13	8	6
Car theft	15	22	5
Motor cycle theft	249	185	4
Pick pockets	328	259	1
Theft by servants	497	448	2