ELIZADE UNIVERSITY

Ilara-Mokin, Ondo State

Department of Economics and Development Studies Faculty of Humanities, Social and Management Sciences First (1st) Semester Examination

2020/2021 Academic Session

Course Code: ECN 205

Credit Units: 2

Course Title: Applied Statistics

Instructions: Answer any THREE questions

Time Allowed: 2 hours

Question One

1a). List Four Assumptions of Pearson Correlations

4 marks

1b). Briefly describe two types of statistics

6 marks

1c). Briefly explain the following:

10 marks

- i. Qualitative data
- ii. Quantitative data
- iii. Categorical data
- iv. Dependent variable
- v. Independent variable

Question Two

2a). Calculate the harmonic mean of the following numbers: 12.1, 13.2, 13.7, 15.2, 17.1

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10 marks

fer | flied Statistics 2b). Consider the monthly revenue for an optical service as follows; 3450, 3550, 3650, 3480, 3355

10 marks

Calculate the following;

- Population variance i.
- Sample variance of Pearson Correl ii.
- Populations standard deviation stics iii.
- Sample standard deviation iv.

iii viii

Question Three

3a). Write a simple regression model and define the variables in the regression

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4 marks

3b). List and explain with examples the types of scale of measurement

16 marks

Ouestion Four

4) Find the value of the correlation coefficient from the table below:

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20 marks

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Question Five

5a) Highlight the advantages and disadvantages of sampling in statistics

10 Marks

5b) With the aid of examples, differentiate between probability and non-probability sampling

10 Marks