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BIOSTATISTICS AND APPLICATIONS

NATIONAL OPEN UNIVERSITY OF NIGERIA

Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, University Village, Jabi-Abuja

NOVEMBER 2021_2 EXAMINATION5678

COURSE TITLE: PUBLIC HEALTH BIOSTATISTICS APPLICATION

COURSE CODE: PHS813

INSTRUCTION: ANSWER ALL

- a). What is Chi Square Goodness of Fit? (5 marks)
 b). A manager of a hospital supply store which has Five (5) branches believed that the
 - b). A manager of a nospital supply store which has Five (5) branches believed that the amount of revenue generated from each branch are the same. A survey was then carried out to see whether this claim is valid at 5 percent level of significance and the following results were obtained. (15 marks)

UNIT:3

TIME:2 HOURS

Branch	Α	В	С	D	Ε
Revenue generated(N)	380	450	430	390	350

- 2. (a) Differentiate between Statistics and Biostatistics (2 marks)
 - (b) Define and explain the following terms:
 - (i) Population (2 marks)
 - (ii) Sample (2 marks)
 - (iii) Statistics (2 marks)
 - (iv) Variable (2 marks)
 - (v) Experiment (2 marks)

(c). Basic Differences between Experimental and Observational Studies (8 marks)

3. The following table shows the intake through JAMB by the Faculty of Science of a certain University in three consecutive years.

Department	2010	2011	2012
Botany	25	23	50
Chemistry	16	20	36

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Zoology	44	37	23
Computer Science	50	16	30
Physics	43	26	25
Mathematics	15	18	27
Biology	17	35	38
Total	210	175	229

Draw (i) Multiple bar chart department by department for the three years. (8 marks)

- (ii) A component bar chart. (8 marks)
- iii) Differentiate between a bar chart and a histogram. (4 marks maximum)
- 4. i) Differentiate between a population and a sample. (4 marks maximum)ii) The quantities of rice (x) and beans (y) purchased by a group of friends for annually celebration is tabulated below:

Year	1981	1982	1983	1984	1985	1986	1987
Rice (x)	118	112	101	98	94	91	62
Bean (y)	76	57	58	80	70	43	53

Estimate the regression coefficient (6 marks)