

**FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI**

**SCHOOL OF POSTGRADUATE STUDIES**

**DEPARTMENT OF PUBLIC HEALTH**

**2018/2019 Rain Semester Examination**

**PUH 818 – Quantitative Techniques**

**Date: 5/03/19**

**Time: 2 hour**

**Instructions: Answer all questions, follow the 6 steps in hypothesis testing when testing for significance and show all working, clearly.**

1) A) What is Quantitative Analysis?

B) State the difference between univariate, bivariate and multivariate analysis?

C) Give 10 examples each of Qualitative and Quantitative Variables

2) The following are weights of PGD 8 Students in F.U.T.O (kgs) (20mrks)

65	72	69	72	67	68	71	67	70	67
66	64	67	65	69	63	73	76	77	64
67	74	70	67	71	70	66	64	67	71
74	67	64	70	67	72	68	67	71	73

i. Determine the Mean, Median and Mode of the weight of students

ii. Determine the Range, Variance and Standard Deviation of the weight of students

3) A) The term quantification of data means?

B) Explain the four steps in data preparation

C) How is quantitative data (i) summarized (ii) presented (iii) analysed

4) The table below shows the severity of attack of smallpox in a remote village and ages of children affected.

Age (in years )	Severity of disease		
	Very heavy	heavy	Moderate
0 – 5	43	120	176
5– 10	184	299	268
11 - 15	111	89	40

Is it reasonable to say that there is an association between severity of smallpox attack and child's age affected. (Use tabulated Chi-square as 9.488)