

STATISTICS AND PROBABILITY-ASSIGNMENT

QUESTION ONE

A) For each of the following variables, state whether it is quantitative or qualitative variable and specify the measurement scale that is employed when taking measurement on each.

- (i) Gender of babies born in a hospital,
- (ii) Position in an exam,
- (iii) Nationality,
- (iv) Price of items in a shop,
- (v) The rank of an academic staff in a university.

B) The following table gives the distribution of ages of a sample of patients who attend Hope Hospital.

Age (years)	Frequency	Relative frequency
5 - 14	6	0.08
15 - 24	9	
25 - 34		0.24
35 - 44	24	
45 - 54	15	
55 - 64		

- i) What is the population of the study?
- ii) What is the variable in this study?
- iii) What is the sample size?
- iv) Complete the blank cells in the table

QUESTION TWO

A) The marks obtained by 40 student in an examination are as follows :

78	60	76	66	33	81	67	84	72	60
54	42	27	33	24	66	27	63	18	30
39	44	30	30	33	45	39	33	30	45
27	36	42	18	42	36	60	72	72	63

Construct a cumulative frequency curve using the intervals 20-29, 30-39,

B) For each of the following situations, answer (a) through (d):

- I) A study of 150 students from St. Ann School, showed that 10% of the students had blood group A.
- II) A study of 100 patients admitted to St. Paul's Hospital, showed that 25 patients lived 8 km from the hospital.
- III) A study of 50 teachers in Town A showed that 5% of the teachers earn GH¢800.00 per month.

- (a) What is the variable in the study?
- (b) What is the population?
- (c) What is the sample size?
- (d) What measurement scale was used?