BBIT Y2S1
BUSINESS STATISTICS
GROUP ASSIGNMENT II

QUESTION ONE

Twenty five army inductees were given a blood test to determine their blood type. The data set is

A	B	B	AB	O
O	O	B	AB	B
B	B	O	A	O
A	O	O	O	AB
AB	A	O	B	A

Construct a frequency distribution for the data.

QUESTION TWO

A biologist who is interested in knowing whether or not a given consignment of seeds is worth planting conducts an experiment as follows: he takes 100 seeds from the consignment and keeps them under carefully standardized conditions favourable for germination. After 14 days, he counts the seeds that have germinated and records their number. He repeats this experiment 100 times and obtains the following data:-

Number of seeds germinating

86	95	92	89	92	92	91	90	88	93	92
95	84	88	93	92	91	87	94	92	92	88
95	91	92	88	92	91	92	90	89	86	93
89	90	90	89	84	89	95	86	93	93	94
93	91	89	95	92	94	90	86	89	93	92
86	86	94	91	90	92	93	94	92	95	88
94	94	91	88	88	93	90	91	88	90	92
91	93	91	94	87	92	94	86	91	91	84
90	88	93	94	85	95	87	93	92	89	93
92										

Required:

(a) Construct a simple frequency distribution.
(b) Use the table to determine the number of seeds that germinated.
(c) What percentage of the seeds germinated?

QUESTION THREE

The following distribution represents the marks obtained by students in an examination.

21	50	42	75	55	67	74	55	47	64
71	61	40	25	25	54	64	37	88	44
31	70	81	51	45	63	49	43	35	67
68	31	38	45	59	75	57	29	66	50
56	84	56	88	63	32	55	88	79	78

Required:

i) Prepare a grouped frequency distribution starting with class 20 – 29 and using a class width of 10.

ii) Determine the actual total marks obtained by all students.

iii) Use the table obtained in (i) above to estimate total marks obtained by all students.

iv) Prepare the following distributions: a less than cumulative frequency, a more than cumulative frequency, a percentage frequency, a less than cumulative percentage frequency and a more than cumulative percentage frequency distribution.

QUSTION FOUR

The following distribution represents the marks of students in an examination.

59	16	20	10	11	38	10	23	13	18	31	16
20	12	11	7	24	11	27	17	42	13	17	14
37	19	22	16	16	14	19	26	26	28	50	9
10	10	18	21	21	15	37	13	8	58	11	23
31	17										

Required:

i. Prepare a grouped frequency distribution.

ii. Determine the actual total marks obtained by all students.

iii. Use the table obtained in (i) above to estimate total marks obtained by all students.