



Open book exercise substitute for epidemiology and biostatistic

Second year level (6)

Academic Year / 1440-1441^h

Student Name:	
Student Number:	
Time:	5days
Date :	3/9/1440---8/9/1441
Number of question	9

No. of Questions	Final Score	Student Score
9 Q	20	
Total	20	

(Read the question below carefully then answer all question

be sure that there were 9 question) .

HOME WORK (substitute for final exam) (20MARKS)

READ THE QUESTION CAREFULLY THEN ANSWER ALL QUESTION TOTAL MARK 20

1-In this table Association between meat consumption and enteritis in specific area. calculate the odds ratio (1MARKS)

		Exposure (recent meat ingestion)		Total
		Yes	No	
Disease (enteritis necroticans)	Yes	50	11	61
	No	16	41	57
Total		66	52	118

2- A sample including 1, 500 women age 70-74 years was selected from the population of Helsinki City area. After examination, 120 were classified as having the diagnosis of depression. Calculate the prevalence of depression (1MARKS)

3- In 1973 there were 29 cases of myocardial infarction in Stockholm among men age 40 - 44 years (Ahlbom 1978). The number of person-years was 41.532 for men in that age group. Calculate The incidence rate per year (1MARKS)

4- Of 595 patients who had received blood transfusion and 712 patients who had not, 75 and 16, respectively, developed hepatitis during a 2.5 year follow-up in a study designed. calculate the relative risk. (1MARKS)

5- Study was conducted based on middle-aged men who developed myocardial infarction in the years 1974-76 and on controls from the general male population. Information was compiled on the country of origin and length of stay in Sweden.
Calculate the Odds ratio of myocardial infarction for those living in Sweden for 20 years or more (1MARKS)

Distribution of cases and controls for those living in Sweden for more than 20 years

	Exposed	
	yes	no
Cases	10	324
Controls	31	832
	24	832

6- A survey about the daily number of medicines consumed by people over 70 shows the following results:

3 1 2 2 0 1 4 2 3 5 1 3 2 3 1 4 2 4 3
 2 3 5 0 1 2 0 2 3 0 1 1 5 3 4 2 3 0 1
 2 3

1. Construct the frequency distribution table of the sample. (4MARKS)
2. Draw the bar chart of the sample and the polygon.
3. Draw the cumulative relative frequency bar chart and polygon.

7-In a survey about the dependency of older people, 23 persons over 75 years were asked about the help they need in daily life. The answers were

B D A B C C B C D E A B C E A B C D B B A A
 B

where the meanings of letters are:

A No help. B Help climbing stairs. C Help climbing stairs and getting up from a chair or bed. D Help climbing stairs, getting up and dressing. E Help for almost everything.

Construct the frequency distribution table and a suitable chart. (4MARKS)

8-The number of people treated in the emergency service of a hospital every day of November was

**15 23 12 10 28 7 12 17 20 21 18 13 11 12 26 30 6
16 19 22 14 17 21 28 9 16 13 11 16 20**

- 1. Construct the frequency distribution table of the sample. Draw a suitable chart for the frequency distribution.**
- 2. Draw a suitable chart for the cumulative frequency distribution.**

(5MARKS)

9- 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 (2MARKS)

Good luck

