

10 JUN 2013

EASTERN UNIVERSITY, SRI LANK

DEPARTMENT OF MATHEMATICS

FIRST EXAMINATION IN SCIENCE -2009/2010 SECOND SEMESTER- (April / May, 2012)

CC 153 - BIOSTATISTICS PRACTICAL

Answer all questions.

Time: Two hours.

Note: Use separate worksheet for each question. Rename each worksheet by question number.

01. A researcher has collected data from an university to identify the factors effect for the GPA of undergraduates. The collected data are in text file "GPA.txt". Description of the data is given below.

Gender -

Gender of student

Age :

Age of the student in years

GPA

GPA of student, had recorded by the time that data collected

Class

The academic year of the student

Height

Height of the students in inches Weight of the students in pounds

Weight: Study hrs:

Number of studying hours per week

Sleep_hrs

Sleeping hours per day

Job

Employability of the students [1: Employed 2: Unemployed]

Text_payment:

Average amount of money students pay for text books per month

Residence:

Student's residence during study period

1: Home

2: Hostel

3: Boarding house

NA is stand for Not Available.

Analyze these data to achieve the above objective and prepare a statistical report. Your report should consist of introduction, composition of sample, preliminary analysis, confirmatory analysis, conclusions and suggestions.

[80 Marks]

02. Write a global macro to check whether GPA depends on classes.

[20 Marks]