



Faculty of Computers & Artificial Intelligence

2st Term (2019-2020) Final Exam

class: 2nd year

Course Code: SCC234

Course name: statistical analysis



Benha University

Final Date: 7 / 6 /2020

Total Marks: Pass / Fail

Examiner(s): Dr.Amal Abo El-khair

Research submission: From 31 May to 7 June 2020

a) Write a research project in ONE of the following topics:

Topic No. 1

Sampling distribution of mean. One sample, estimation: mean two sided ;error, the best estimator (σ^2 known, unknown). Test hypotheses for mean one-two sided (σ^2 known, unknown). Using applied example to show that.

Topic No. 2

Sampling distribution of difference between means. Two samples: Estimation difference between two means two sided (σ_1^2, σ_2^2 unknown). Test hypotheses for difference between two means one-two sided (σ_1^2, σ_2^2 unknown). Using applied examples to show that.

Topic No. 3

Sampling distribution of variance. Test independent. Linear regression: estimation parameters, confidence interval for parameters, test hypotheses for parameters. Using applied examples to show that

b) Notes: please, your research must contain the following elements:

- $\mu, \sum, \sigma^2, \sigma_1^2, \sigma_2^2, \chi^2$

GOOD LUCK,

Examiner(s)
Dr.Amal Abo El-khair

Head of Department /
Program Coordinator