



Faculty of Computers & Artificial Intelligence
2nd Term (2019-2020) Final Exam
Information Security and Digital Forensics Program
Course Code: FBS111 Level: 1st level
Subject: Probability and Statistics



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

Discrete random variable: pdf; joint pdf ;conditional pdf; marginal pdf ; cases of independent; expectation;variance; covariance. Some discrete pdf: binomial distribution; poisson distribution; the relation between them. Using applied example to show that.

Topic No. 2

Continous random variable: pdf; joint pdf ;conditional pdf; marginal pdf ; cases of independent; expectation;variance; covariance. Some continous pdf: normal disribution; standared normal disribution; the relation between them. Using applied example to show that.

Topic No. 3

Events: sample space; mutually exclusive, conditional; cases of independent. Theorems used in Bayes rule; important of Bayes rule in machine defective. Using applied examples to show that.

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

- μ , λ , \sum , σ^2

GOOD LUCK,

Examiner(s)
Dr.Amal Abo El-khair

Program Coordinator
Dr. Ahmed Taha