



Form A

FINAL. Exam
Academic Year 1447 Hijri.- FIRST. Semester

Exam Information معلومات الامتحان		
Course name	الاحتمالات و الإحصاء الهندسي	اسم المقرر
Course Code	STAT 305	رمز المقرر
Exam Date	25/10/14	تاريخ الامتحان
Exam Time	12:00 – 13:00	وقت الامتحان
Exam Duration	One heure	مدة الامتحان ساعة
Classroom No.		رقم قاعة الاختبار
Instructor Name	ا.د. / مصطفى الحسني	اسم استاذ المقرر

Student Information معلومات الطالب		
Student's Name		اسم الطالب
ID number		الرقم الجامعي
Section No.		رقم الشعبة
Serial Number		الرقم التسلسلي

General Instructions:

- Your Exam consists of **3 PAGES**
 - You are **NOT** allowed to use any form of notes, textbooks, or electronic devices (such as mobile phones or tablets) during the exam
 - **Calculators are allowed.**
 - Please read each question carefully and answer all parts as instructed.
- تعليمات عامة:
- عدد صفحات الامتحان 3 صفحات
 - يمنع استخدام أي نوع من الملاحظات أو الكتب أو الأجهزة الإلكترونية (مثل الهواتف المحمولة أو الأجهزة اللوحية و الساعات الذكية) خلال الامتحان
 - يسمح باستخدام الآلة الحاسبة
 - يرجى قراءة كل سؤال بعناية والإجابة على جميع الأجزاء كما هو موضح

مع تمنياتنا لكم بالتوفيق

Good Luck

هذا الجزء خاص بأستاذ المادة

This section is ONLY for instructor

#	Course Learning Outcomes (CLOs)	Related Question (s)	Points	Final Score
CLO1	Present data in charts and tables	Part 1	4	
CLO2	Compute measures of location and measures of variability	Part 2	4	
CLO3	Acquire basic concepts of probability theory	Part 3	4	
COL6	Analyze measures of location and measures of variability	Part 4	4	
CLO8	Compute probability models for a given problem.	Part 5	4	
Total			20	

Part 1: CLO1

...../4 MARKS

You are given the following set of data points: **12,22,18,9,25,31,28,19,22,27,32,14**

Based on that, answer the following question:

Q1 : What are the class intervals for the grouped frequency table with 5 classes?

A. 9-13, 14-18,19-23,24-28,29-33

C. 9-14, 15-20, 21-26, 27-32, 33-38

B. 8-13, 14-19,20-25,26-31,32-36

D. 6-11, 12-17, 18-23, 24-29, 30-35

Q2: How many values fall in the class interval the **second class** ?

A. 1

C.3

B. 2

D. 4

Q3: Which class interval contains the most values?

A. The first and Second class

C. The fourth and Fifth class

B. The third and fourth class

C. The Second and fourth class

Q4. What kind of chart should be used to represent the grouped frequency table visually?

A. Frequency Chart

C. Histogram

B. Pie Chart

D. Line Chart

Part 2: CLO 2

...../4 MARKS

Q1: Fatima received the following marks on her first 4 math quizzes: 65, 78, 82, and 90. What score must Fatima earn on her fifth quiz to achieve an average of 80 across all five quizzes

A. 75

B. 80

C.85

D. 90

Q2: You are given the ages (in years) of 5 people: 62,61,59,58, 60 What is the standard deviation of the ages?

A. 1.58

B. 2.5

C. 1.9

D. 60

Q3: What is the **third quartile** of the followind data score: 12, 25, 15,5,22,7,14,36,53,30,42

A. 23

B. 22

C. 36

D. 42

Q4: Consider the following dataset representing the grades (in years) of 5 students: 70,65,90,60,80 what is the **range** of the grads :

A. 30

B. 40

C.25

D. 73

Part 3: CLO 3

...../4 MARKS

Q1: If a fair coins is tossed 3 times, what is the probability of getting **at most** two heads

A. 0.666

B. 0.5

C.0.875

D. 0.125

Q2: If two events are mutually exclusive, what is the probability that both events occur?

A. 0

B. 1

C. 0.5

D. it depends on events

Q3: If you roll a fair six-sided die, what is the probability of getting **at least** a number greater than 4?

A. 1/6

B. 1/3

C. 2/3

D. 1/2

Q4: A bag contains 3 red balls, 4 blue balls, and 5 green balls. If one ball is drawn at random, what is the probability that it is blue?

A. 1/3

B. 1/4

C.5/12

D. 2/3

Part 4: CLO6**.....\ 4 Mark**

Q1: Consider the following dataset representing the ages (in years) of 6 people:
25, 30, 27, 32, 28, 35.

- Task: Calculate the range, the median , variance, and standard deviation of this dataset

Part 5: CLO8**.....\ 4 Mark**

1- Define the Probability of an Event and write The Probability Function Rules?

.....\ 2 Mark

2- Suppose that there were 140 students in the classroom, and classified as follows:

.....\ 2 Mark

- Calculate the probability of student with brown hair, given Male
- Calculate the probability of student with not brown hair, given Female

	Brown	Not Brown
Male	35	35
Female	40	30