

Course No: **ITGD3102**
Course Title: **Introduction to
Computer Statistical Packages**
Date: **15 / 5 / 2011**
No. of Questions: **5**
Time: **2.5 hr**
Using Calculator (**Yes**)

University of Palestine



Final Exam
Second semester
2010/2011
Total Grade: **40**

Instructor: **Eng. Ahmed H. Abo
absa**
Student No.: _____
Student Name: _____
College Name: **Information
Technology**
Dep. / Specialist:
Using Dictionary (**No**)

First Question

No. of Branches (10)

(10/40)

Q1 Choose the correct answer:

1. If $P(A) = 0.33$, then the probability of the complement of A is
 - a) 0.52
 - b) 0.67
 - c) 0
 - d) None of the above.
2. Which of the following statistics is not a measure of center ?
 - a) arithmetic mean
 - b) median
 - c) mode
 - d) Range
3. If two events are disjoint, what is the probability that both occur at the same time?
 - a) 0
 - b) 0.50
 - c) 1.00
 - d) Cannot be determined from the information given.
4. If two events are independent, what is the probability that they both occur?
 - a) 0
 - b) 0.50
 - c) 1.00
 - d) Cannot be determined from the information given.
5. The width of each bar in a histogram corresponds to the
 - a) differences between the boundaries of the class.
 - b) number of observations in each class.
 - c) midpoint of each class.
 - d) percentage of observations in each class.
6. If $n = 10$ and $p = 0.70$, then the mean of the binomial distribution is
 - a) 0.07.
 - b) 1.45.
 - c) 7.00.
 - d) 14.29.



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7. If $n = 10$ and $p = 0.70$, then the standard deviation of the binomial distribution is
- 0.07.
 - 1.45.
 - 7.00.
 - 14.29.

8. What number is missing from the table
- 0.28
 - 0.7
 - 0.72
 - 0.7

Grades on Test	Frequency	Relative Frequency
A	6	.24
B	7	
C	9	.36
D	2	.08
F	1	.04

9. Consider the given discrete probability distribution. Find $P(x < 3)$.
- 0.2
 - 0.7
 - 0.5
 - 0.3

x	1	2	3	4	5
$p(x)$.1	.2	.2	.3	.2

10. Use the standard normal distribution to find $P(z < -2.33 \text{ or } z > 2.33)$.
- 0.0198
 - 0.9901
 - 0.0099
 - 0.0606

Second Question

No. of Branches (1)

(5/40)

Q2

Find the mean and the standard deviation

x	$P(x)$			
0	0.15			
1	0.4			
2	0.15			
3	0.05			
4	0.1			
5	0.15			



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Third Question

No. of Branches (2)

(7/40)

Q3:

- A recent report indicated a typical family of four spends 490\$ per month on food. Assume the distribution of food expenditures for a family of four follows the **normal distribution**, with a **mean of 490\$** and a **standard deviation of 90\$**
 - 1- what percent of families spent **more** than 430\$ but **less** than 490\$
 - 2- what percent of families spent **less** than 430\$

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- Assume that the mean hourly cost to operate a commercial airplane follows the **normal distribution** with a **mean of 2,100\$** and a **standard deviation of 250\$**, what is the operating cost for **the highest 15 percent of the airplanes?**

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Forth Question

No. of Branches (2)

(8/40)

Q4:

a) A recent study by the American Highway Association revealed that **60%** of American drivers use their seat belts. **A sample of 10 drivers is selected:**
1- What is the probability that is exactly 7 are wearing seat belts
2- What is the probability that at least one is wearing seat belt?

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b) A **uniform distribution** is defined over the interval from 2 to 5
1- What are the **mean** and the **standard deviation** of this distribution?
2- Show that the total area is 1
3- Find the probability of the value more than 2.6
4- Find the probability of a value between 2.9 and 3.7

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بسم الله الرحمن الرحيم

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Fifth Question

No. of Branches (1)

(10/40)

Q5:

For the following set of numbers, find the **mean, mode, median and the third Quartile**

12 22 18 15 24 20 22 23 19

Good Luck