

Course Title: Topics in CIS  
Date: 07 / 11 / 2012  
No. of Questions: 3 Questions  
Time: 1 hour  
Using Calculator (Yes)

University of Palestine



Midterm Exam  
1<sup>st</sup> semester 2012/2013  
Total Grade: 20

Instructor Name: Mrs. Eman Alajrami  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

First Question	No. of Branches (2)	( 8 marks)
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A) Put (  $\checkmark$  ) or ( X ) for each of the following statements: (5 Marks)

1. A query may not represent the information needs exactly because Information needs are difficult to describe. ( )
2. Partial matching is accomplished by assigning binary weights to index term in queries and documents. ( )
3. The most common measures of IR system performance are time and space. ( )
4. A pattern is a set of syntactic features that must occur in a text segment. ( )
5. Recall and precision must add up to 100. ( )

B) Define the following: (3Marks)

1. IR System Components:

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2. Novelty:

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3. Coverage:

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Second Question	No. of Branches (2)	12 marks
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1. What are the drawbacks of Boolean model? ( 2 Marks)

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2. Describe the relation between Precision, Recall and Fallout and show how they affect each other? ( 2 Marks)

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4. The following table shows the output of an information retrieval system on a query. The total number of relevant documents is 10. ( 3 Marks)
- a. Fill the table.

Rank	Query	Recall	Precision	Fallout
1	-			
2	X			
3	-			
4	-			
5	-			
6	-			
7	X			
8	-			
9	X			
10	X			

- b. Calculate the interpolated precision.

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5. Tom is the user of an information retrieval system who is doing research to compare what people in Britain use mobile phones for and what they use email for. Show how you would express Tom's *information need* as a *single-word* query, then as a *context* query, and then as a *Boolean* query. ( 2 Marks)

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End of Questions  
Good Luck