

Course No: MIS 2303
Course Title: Special Topics
Date: 24/3/2014
No. of Questions: (2)
Time: 60 Minutes
Total Grade:

University of Palestine

Midterm Exam
First Semester 2013/2014

Instructor Name: Najwa Baraka
College Name: Information Technology
Dep. / Specialist: Management Information Systems
Student No.:
Student Name:

- *“Expert system is one of major AI apps”*. **Discuss in details what is an expert system, how we can build it and mention two examples of expert system in our life**

Question Two

- Show that $(p \Rightarrow q) \wedge (q \Rightarrow p)$ is logically equivalent to $p \Leftrightarrow q$

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- Determine whether this proposition is tautology, contradiction, or neither
- $\sim (p \Rightarrow q) \Leftrightarrow \sim (\sim p \vee q)$

- Translate the following English statements into predicates:
 - ✓ Every teacher loves some painter
 - ✓ Every teacher who loves Bob also loves Alice
 - ✓ Some painter loves some teacher
 - ✓ No teacher loves every teacher
 - ✓ Every teacher who is also a painter loves Bob
 - ✓ Some teacher loves both Bob and Alice

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- **Using Bayes' Theorem solve this Problem : Marie's marriage is tomorrow.**
- In recent years, each year it has rained only 5 days.
- The weatherman has predicted rain for tomorrow.
- When it actually rains, the weatherman correctly forecasts rain 90% of the time.
- When it doesn't rain, the weatherman incorrectly forecasts rain 10% of the time.
- **The question: *What is the probability that it will rain on the day of Marie's wedding?***

Best of Luck

"Success consists of going from failure to failure without loss of enthusiasm."

-Winston Churchill