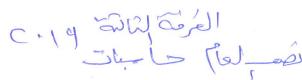




Menufiya University 1st Term - Final Exam Class: 3rd Year Subject: Artificial Intelligence





Faculty of Electronic Engineering Dept. of Computer Science and Engineering

> Time: 3.00 hours Date: 1/1/2020

[70 Marks] Answers all from following questions (in one page)

1-a) Write the short note about the Artificial Intelligence problem.

[10 Marks]

1-b) State the various languages used with Artificial Intelligence.

[5 Marks]

2-a) Describe the Problem Characteristics.

[5 Marks]

2-b) What are the required steps for building a system to solve a problem?

[5 Marks]

3-a) Define the search technique, illustrate its advantage and disadvantage? [5 Marks]

3-b) Illustrate the difference between uninformed and informed search strategies; state [10 Marks] the different informed and uniformed search strategies.

4-a) Define the knowledge representation, state the difference between Declarative and [5 Marks] Procedural knowledge.

4-b) Write a short note about the various methods for knowledge representation.

[10 Marks]

5-a) What is the meaning of the machine learning; explain the difference between the most famous of machine learning algorithms? [10 Marks]

5-b) Show how to calculate the entropy's value of the attribute that has three goals values as (low= 5, medium = 3, large = 7). [5 marks]

With my best wishes

Assoc. Prof. Ahmed M. Elmahalawy