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## **ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS ASSIGNMENT**

### **FINAL-TERM ASSESSMENT**

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**Marks:10**

*Mention Name, ID, Course, Section, Serial number in heading. Then write down your solution. Upload the Microsoft word file in Microsoft TEAMS.*

*Submission Date: Saturday 19/09/2020 10:00 PM (Strict deadline)*

**Question1: 7 marks**

***What is Backtracking Search? Describe 2 improvement techniques on Backtracking Search.***

[Solve by yourself. Take help from “Artificial Intelligence: A Modern Approach,” by Stuart J. Russell and Peter Norvig. Describe in brief. Do not copy from others. This will lead to serious punishment.]

**Question2: 3 marks**

***Apply Bayes’ Rule on below problem***

Doctors knows that 60% of the people with **Symptom, S** has **disease, D**. In general, this symptom is found in 10 % population. On the other hand 8% patient has this disease, D.

Now calculate how many patients with **disease, D** out of 100 will show the **symptom, S**?