

M. SC. (Computer Science) SEM – III (Choice Based Credit & Grade System) : SUMMER - 2019

SUBJECT: ARTIFICIAL INTELLIGENCE

Day: Saturday
Date: 27/04/2019

S-2019-1254

Time: 03.00 PM TO 06.00 PM
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figure to the right indicates full marks.
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Q.1 What is PEAS? Explain different agent types with their PEAS descriptions. **(15)**

OR

Elaborate various search methods with suitable example.

Q.2 A) Answer **ANY ONE** of the following: **(08)**

- i) Describe forward chaining in detail.
- ii) Write a note on knowledge engineering.

OR

B) Answer **ANY ONE** of the following: **(07)**

- i) Elaborate the concept of supervised learning .
- ii) Describe the architecture of artificial neural network with the help of suitable diagram.

Q.3 Answer **ANY THREE** of the following: **(15)**

- a) Explain knowledge acquisition in expert system.
- b) What is inference in belief network?
- c) What do you mean by Hierarchical decomposition?
- d) What is first order logic?
- e) Elaborate the evolution of Artificial Intelligence concept.

Q.4 Write short notes on **ANY THREE** of the following: **(15)**

- a) Structure of an intelligent agent
- b) Expert system
- c) Conditional planning
- d) Robotics
- e) Game playing

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