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SARDAR PATEL UNIVERSITY, V.V.NAGAR

EXTERNAL EXAMINATION-2019

BCA Semester-III

Course Code: US03EBCA02 (OLD Course)

Course Title: Introduction to Artificial Intelligence

Date: 25-11-2019, Monday

Time: 02.00a.m. to 04.00p.m.

Marks: 70

Q.1 MULTIPLE CHOICE QUESTIONS

[10]

(1) Researchers from AI and psychology have joined together at some universities to form a separate discipline known as _____

(a) Cognitive Science (b) Cybernetics (c) Control theory (d) None of these

(2) Medical diagnosis is a _____

(a) Mundane task (b) Formal task (c) Expert task (d) None of these

(3) Game playing is a _____

(a) Mundane task (b) Formal task (c) Expert task (d) None of these

(4) Rule based systems is an example of _____

(a) Logical representation scheme (b) Procedural representation scheme

(c) Network representation scheme (d) Structured representation scheme

(5) First order Predicate calculus is an example of _____

(a) Logical representation scheme (b) Procedural representation scheme

(c) Network representation scheme (d) Structured representation scheme

(6) Inferring facts from existing data is also known as _____

(a) Reasoning (b) Retrieving (c) Learning (d) Acquisition

(7) Which of the following will find the best goal state?

(a) Breadth-first search (b) Depth-first search (c) Bidirectional search

(d) Best-first search

(8) Predicate logic is also known as _____

(a) Predicate calculus (b) First-order predicate logic

(c) First-order predicate calculus (d) All of the above

(9) A humanoid robot is an example of _____

(a) Manipulator robot (b) Mobile robot (c) Hybrid robot (d) All of these

(10) An assembly line is example of _____ type of robot.

(a) Manipulator (b) Mobile (c) Hybrid (d) All of these

Q.2 SHORT QUESTIONS (ANY TEN)

[20]

(1) What is AI?

(2) List any two definitions of AI.

(3) List the events that took place in 1956.

(4) What is a Knowledge base?

(5) What is an Inference engine?

(1)

(P.T.O)

- (6) What is a User interface?
- (7) What is Breadth-first search?
- (8) What is Depth-first search?
- (9) What is Depth-limited search?
- (10) What is Fuzzy logic?
- (11) What is a Crisp set?
- (12) What is Fuzzy sets?

- Q.3 (A) What is AI? Explain in Brief [05]
(B) Write any five definitions of AI. [05]
- OR
- Q.3 (A) Write a note on History of AI in the period 1950-1965 [05]
(B) Write a note on AI Problem [05]
- Q.4 (A) What is Expert system? Explain. [05]
(B) Write a note on the characteristic features of an expert system [05]
- OR
- Q.4 (A) State the advantages of expert system. [05]
(B) State the disadvantages of expert system [05]
- Q.5 (A) Write a note on predicate logic [10]
- OR
- Q.5 (A) What is informed search strategy? Explain the Best first search algorithm [10]
- Q.6 (A) Write a note on Fuzzy logic [05]
(B) Write a note on crisp sets [05]
- OR
- Q.6 (A) Write a note on Game playing [05]
(B) Write a note on Robotics [05]

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(2)