

Seat No. : _____

SJ-134

September-2020

B.C.A., Sem.-VI

CC-309 : Introduction to AI and ML (New Course)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) All Questions in **Section I** carry equal marks.
(2) Attempt any **TWO** questions in **Section I**.
(3) Question 5 in **Section II** is **COMPULSORY**.

Section – I

1. (A) Explain applications of AI in detail. **10**
(B) Explain properties task environments. **10**
2. (A) Explain A* Search with example. **10**
(B) Explain breadth-first search and depth first search with example. **10**
3. (A) What is an information retrieval ? Explain PageRank and HITS algorithms. **10**
(B) Define information extraction. Explain finite-state automata(FSA) for information extraction. **10**
4. (A) Explain semi-supervised learning and reinforcement learning in detail. **10**
(B) Define machine learning. Give differences between supervised and unsupervised learning. **10**

Section – II

5. Do as directed. (Any **Five**) **10**
 1. Acting rationally is the _____ approach.
 - (a) Rational Agent
 - (b) Turing test
 - (c) Laws of thought
 - (d) None of above
 2. An agent can be viewed as perceiving its environment through _____.
 - (a) Sensors
 - (b) Sensors and Actuators
 - (c) Perceiver
 - (d) None of above

3. In Search algorithms, the structure of a node contains ____ components.
 - (a) State and Parent
 - (b) Action
 - (c) Path-cost
 - (d) All of above
4. ____ search strategy is also called as blind search.
 - (a) Simple reflex search
 - (b) Uninformed search
 - (c) Informed search
 - (d) None of these
5. _____ is/are example/s of toy problems.
 - (a) Vacuum worlds
 - (b) 8-queens problem
 - (c) 8-puzzle
 - (d) All of above
6. The NLP system takes ____ as an input.
 - (a) Speech
 - (b) Written text
 - (c) Both (a) and (b)
 - (d) None of above
7. The Support Vector Machine(SVM) is a/an ____ algorithm.
 - (a) Supervised learning
 - (b) Reinforcement learning
 - (c) Unsupervised learning
 - (d) None of these
8. The ____ is/are type/s of reinforcement learning.
 - (a) Direct learning
 - (b) Indirect learning
 - (c) Both (a) and (b)
 - (d) None of above
9. ____ is used to improve agent's performance.
 - (a) Learning
 - (b) Omniscience
 - (c) Autonomy
 - (d) None of above
10. The N-gram models include/s _____.
 - (a) unigram
 - (b) trigram
 - (c) bigram
 - (d) All of above

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B.C.A., Sem.-VI

**CC-309 : E-Commerce
(Old Course)**

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) All Questions in **Section I** carry equal marks.
(2) Attempt any **TWO** questions in **Section I**.
(3) Question 5 in **Section II** is **COMPULSORY**.

Section – I

1. (A) List and explain eight unique features of e-commerce. **10**
(B) Explain email protocols and utility programs. **10**
2. (A) List and explain dimensions of e-commerce security. **10**
(B) What is encryption? Explain symmetric key encryption in detail. **10**
3. (A) List e-commerce payment system. Explain any two in detail. **10**
(B) What is online auction? Explain any three types in detail. **10**
4. (A) Explain candidate ethical principles. **10**
(B) List intellectual property rights. Explain any one in detail. **10**

Section – II

5. Answer the following. (Any **five**) **10**
 1. Amazon is _____ type of e-commerce.
(a) B2B
(b) B2C
(c) C2C
(d) All of these
 2. SSL stands for _____
(a) System Secure Layer
(b) Secure Socket Layer
(c) Secure System Layer
(d) None of above

3. _____ is a network located within a single organization.
 - (a) Internet
 - (b) Extranet
 - (c) Intranet
 - (d) None of these
4. Spoofing is also known as _____.
 - (a) Pharming
 - (b) Sniffing
 - (c) Phishing
 - (d) Bots
5. _____ is a type of malicious code.
 - (a) Virus
 - (b) Worm
 - (c) Trojan Horse
 - (d) All of above
6. In a _____ pricing rule, multiple winners pay different amount depending on what they bid.
 - (a) Uniform
 - (b) Discriminatory
 - (c) Public
 - (d) None of these
7. SET stands for
 - (a) Secure Electronic Transaction
 - (b) Safe Electronic Transaction
 - (c) Secure Encryption Standard
 - (d) None of these
8. Patent is granted for _____ years.
 - (a) 10
 - (b) 20
 - (c) 50
 - (d) 70
9. _____ is a mark used to identify and distinguish goods and indicate their source.
 - (a) Patent
 - (b) Copyright
 - (c) Trademark
 - (d) None of these
10. The study of principles that individuals and organizations can use to determine right and wrong course of action is called _____.
 - (a) Ethics
 - (b) Accountability
 - (c) Responsibility
 - (d) Liability