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(For those admitted in June 2023 and later)

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART-III	CORE ELECTIVE -2	P23CS2E2A	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**Maximum: 75 Marks**

<b>Course Outcome</b>	<b>Bloom's K-level</b>	<b>Q. No.</b>	<b>SECTION – A (10 X 1 = 10 Marks)</b> <b>Answer ALL Questions.</b> <b>Choose the best Answer:</b>
CO1	K1	1.	In ____ alan turing proposed a method for determining whether a machine can think. a) 1930 c) 1940
			b) 1935 d) 1950
CO1	K2	2.	A _____ is a production system in which the application of a rule never prevents the later application of another rule. a) Monotonic c) Commutative
			b) Non monotonic d) Non commutative
CO2	K1	3.	The generate and test strategy is ____ approach. a) Bottom up c) Strong
			b) Simple d) Top down
CO2	K2	4.	A _____ is a collection of attributes and associated values that describe some entity in the world. a) Window c) Frame
			b) Frameset d) None of these
CO3	K1	5.	Natural deduction is not a ____ term to solve problem. a) Precise c) Short
			b) Broad d) All of these
CO3	K2	6.	Backward chaining systems usually use ____first backtracking to select individual rules. a) breadth c) a & b
			b) depth d) None of these
CO4	K1	7.	Machine learning is a form of ____ that enables a system to learn from data. a) AI c) DS
			b) BI d) DA
CO4	K2	8.	____ computing allows businesses to test new endeavours without the large upfront costs of on-premises hardware. a) Grid c) Cloud
			b) Distributed d) C/S
CO5	K1	9.	_____learning is a powerful set of technologies that can help organizations transform their understanding of data. a) Deep c) Reinforcement
			b) Machine d) None of these
CO5	K2	10.	____ is a technique to modify models to avoid the problem of over fitting. a) Normalization c) Regularization
			b) Defragmentation d) All of these

Course Outcome	Bloom's K-level	Q. No.	<b>SECTION – B (5 X 5 = 25 Marks)</b> <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b>
CO1	K2	11a.	Define Artificial Intelligence & its problem definitions? <b>(OR)</b>
CO1	K2	11b.	Describe state space search.
CO2	K2	12a.	Discuss best – first search. <b>(OR)</b>
CO2	K2	12b.	Narrate the approaches to knowledge representation.
CO3	K3	13a.	How would you explain computable functions and predicates? <b>(OR)</b>
CO3	K3	13b.	Identify the differences of Forward vs backward reasoning.
CO4	K3	14a.	Examine big data and its context with machine learning? <b>(OR)</b>
CO4	K3	14b.	Demonstrate the role of statistics and data mining with machine learning?
CO5	K4	15a.	Examine the term Data preparation. <b>(OR)</b>
CO5	K4	15b.	Analyse the role of machine learning algorithms.

Course Outcome	Bloom's K-level	Q. No	<b>SECTION – C (5 X 8 = 40 Marks)</b> <b>Answer <u>ALL</u> Questions choosing either (a) or (b)</b>
CO1	K4	16a.	Analyse AI technique & approaches to solve problems? <b>(OR)</b>
CO1	K4	16b.	Investigate the term problem characteristics.
CO2	K5	17a.	Discuss the term Hill climbing & its various types of algorithms <b>(OR)</b>
CO2	K5	17b.	Determine the issues in knowledge representation.
CO3	K5	18a.	How will you representing simple facts in logic? <b>(OR)</b>
CO3	K5	18b.	Critically evaluate the procedural (vs) declarative knowledge.
CO4	K5	19a.	Determine the Leveraging the power of machine learning. <b>(OR)</b>
CO4	K5	19b.	Evaluate the approaches to machine learning.
CO5	K6	20a.	Discuss the types of machine learning algorithms. <b>(OR)</b>
CO5	K6	20b.	How will you construct the machine learning cycle?