Code: 21P03601 SR21 SET-1

SRINIVASA INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC – Autonomous Institution

III B.Tech II Semester I MID Examinations, FEBRUARY – 2025 ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

MECH

Time: 20 Mins	Max. Marks:20)	Date: 24 -02.2025
Roll No:	Sign of the Stu	dent:	Marks Obtained:
Name:	Sign of invigila	tor:	Sign of Valuator:
СО	CO 1	CO 2	Marks Obtained:
UNIT	1	II	Total Marks

1. What is the primary focus of Artificial Intelligence (AI)?]
a) Developing robots that can perform physical tasks		
b) Creating machines that can exhibit human-like intelligence		
c) Designing software programs for entertainment		
d) Analyzing large datasets for business purposes		
2. Which of the following is NOT a characteristic of AI systems?	[]
a) Recognizing speech		
b) Understanding language		
c) Performing manual labor		
d) Making decisions		
3. How do AI systems typically make decisions or predictions?	[]
a) By following pre-programmed rules		
b) By processing large amounts of data and identifying patterns		
c) By using intuition and emotions		
d) By relying on human input		
4. What is machine learning?	[]
a) A type of AI that focuses on creating robots		
b) A type of AI that allows machines to learn from data		
c) A type of AI that can only perform simple tasks		
d) A type of AI that is only used in research labs		

5. Which of the following is an example of AI in everyday life?			[]	
a) A traditional car					
b) A coffee	maker				
c) A voice as	ssistant like Siri	or Alexa			
d) A manua	l typewriter				
6. What is t	he Turing Test	designed to eva	aluate?	[]
a) A machine's ability to perform complex calculations					
b) A machin	ne's ability to ex	hibit human-lik	ke intelligence		
c) A machin	e's ability to lea	arn from data			
d) A machin	ne's ability to re	cognize objects	3		
7. When did	d the field of Al	officially begin	1?	[]
a) 1940s	b) 1950s	c) 1960s	d) 1970s		
8. What wa	s the main reas	son for the "Al	Winter"?	[]
a) Rapid pr	ogress in Al res	earch			
b) Increased	d funding and s	upport for Al			
c) Limited c	apabilities of ea	arly AI systems			
d) Ethical co	oncerns about A	Al			
9. What is D	Deep Learning?			[]
a) A type of AI that uses rule-based systems					
b) A type of	Al that uses m	achine learning	with neural networks		
c) A type of	AI that can onl	y solve simple រ	problems		
d) A type of	Al that is still in	n its early stage	S		
10. Which of the following is NOT a real-world application of AI?		[]		
a) Self-drivii	ng cars				
b) Voice ass	sistants				
c) Time trav	rel				
d) Medical d	diagnosis				

11. What is a logical agent?	[]
 A) A system that learns from experience B) A system that makes decisions using logic C) A system that reacts to stimuli without reasoning D) A system that randomly selects actions 		
12. What is the main characteristic of a logical agent?	[]
A) It stores vast amounts of raw data B) It uses predefined rules to react to the environment C) It makes decisions based on logical inference D) It does not require a knowledge base		
13. Which type of logic is commonly used in logical agents?	[]
A) Fuzzy Logic B) Propositional and First-Order Logic C) Genetic Algorithms D) Evolutionary Logic		
14. What is a knowledge base (KB) in logical agents?	[]
A) A physical database of facts B) A collection of algorithms C) A set of sentences in a formal language D) A learning model		
15. How does a logical agent derive new information?	[]
A) By memorizing past experiences B) By applying inference rules to known facts C) By trial and error D) By using only machine learning techniques		
16. What is inference in logical reasoning?	[]
A) A process of randomly selecting a fact B) A process of deriving new facts from known facts C) A method of storing facts in memory D) A technique of deleting irrelevant information		
17. Which of the following is NOT a type of logic used in AI?	[]
A) Propositional Logic B) First-Order Logic C) Relational Logic D) Arithmetic Logic		

18. What is modus ponens?]
A) A method for deleting knowledge from a KB		
B) An inference rule: If P \rightarrow Q and P is true, then Q is true		
C) A process of learning new rules from experience		
D) A statistical method for making predictions		
19. Which type of agent uses a knowledge base and inference mechanisms?	[]
A) Reactive agent		
B) Logical agent		
C) Learning agent		
D) Reflex agent		
20. What is a sentence in a knowledge base?	[]
A) A command to the agent		
B) A formal representation of knowledge		
C) A user query		
D) A random statement		