Reg. No.:					

Question Paper Code: 59424

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Electronics and Communication Engineering

15UEC924- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(Regulation 2015)

		(Regi	11au011 2013)			
Dur	ation: One hour		M	Iaximum: 30 Ma	rks	
		PART A -	$(6 \times 1 = 6 \text{ Marks})$			
		(Answer any six o	f the following questions)		
1.	What kind of envir	ronment is crossword put	zzle?		CO1-R	
	(a) Static	(b) Dynamic	(c) Semidynamic	d) None		
2.	Which search strat	tegy is also called as blin	d search?		CO1-R	
	(a) Uniformed sea	rch	(b) Simple reflex search	:h		
	(c) Informed searc	·h	(d) All of the mentione	ed		
3.	Best-First search c	can be implemented using	g the following data structur	e	CO2-R	
	(a) Queue	(b) Stack	(c) Priority Queue	(d) Circular (Queue	
4.	What is the heurist	tic function of greedy bes	st-first search?		CO2-R	
	(a) $f(n) != h(n)$	(b) f(n) < h(n)	(c) f(n) = h(n)	(d) f(n) > h(n))	
5.	How many logical	connectives are there in	artificial intelligence?		CO3-R	
	(a) 2	(b) 3	(c) 4	(d) 5		
6.		hat the sentence α entails nich α is β is also _	the sentence β) if and only	if, in	CO3-R	
7.	(a) True, true Automated vehicle	(b) True, false e is an example of		(d) False, fals	se CO4-R	
	(a) Supervised lear	rning	(b) Unsupervised learning			

(d) Reinforcement learning

(c) Active learning

8.	Which of the following is a disadvantage of decision trees?						
	(a) Factor analysis	(b) Decision trees are robust					
9.	(c) Decision trees are prone to be overfit What is defined by a set of strings?	(d) None of the above		CO5-U			
	(a) Signs	(b) Formal language					
10.	(c) Communication Why the parsing is used?	(d) None of the mentioned		CO5-U			
	(a) Interpretation	(b) Building a parse tree					
	(c) Recognition	(d) All of the mentioned					
$PART - B (3 \times 8 = 24 \text{ Marks})$							
11.	(Answer any three of the following questions) Explain briefly about blind search techniques with an example for each search.			(8)			
12.	. What is Greedy Best First Search? Explain with an example the different stages of Greedy Best First search.			(8)			
13.	· Explain unification algorithm with an example.			(8)			
14.	Explain how the decision-tree-learning is done with an example and algorithm.			(8)			
15.	. Explain the two types of parsing with suitable example.			(8)			