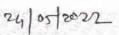
TE/complsem-VI/CBCGS/mc/FH-2022 24/05/2022





University of Mumbai **Examinations Summer 2022** (Revised Set May 2022)

Time: 2 Hr 30 Mins

Max, Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory an			
1.	VoLTE Stands for			
Option A:	Voice over Long Term Evolution			
Option B:	Voice Over Local Telecommunication Equipment			
Option C:	Video Over Long Term Evolution			
Option D:				
2.	UTRAN stands for			
Option A:	Universal Transmission Radio Networks			
Option B:	Universal Terrestrial Radio Access Network			
Option C:	Unified Transmission Area Network			
Option D:				
3.	Which of the following Stores the User Related Data That is also relevant to GSM Mol Systems?			
Option A:	VLR			
Option B:	HMR			
Option C:	GMR			
Option D:	SIM			
4.	Generic Routing Encapsulation allows the encapsulation of packet of One protocol suite into payload portion of a packet of another Protocol suite is nothing but			
Option A:	GRE			
Option B:	IP Tunneling			
Option C:	Protocol Synchronization			
Option D:	Minimal Encapsulation			
5.	Two or more antennas can also be combined to Improove the reception by counteracting negative effects of multi path propagation, these antennas are also termed as			
Option A:	multi element antenna Array			
Option B:				
Option C:	Sectored antenna			
Option D:	Isotropic Radiator			
6.	What is an Access Point			
Option A:	An entity that provides access to LLC layer			
Option B:	An entity that provides access to LLC layer An entity that provides access to MAC layer			
Option C:	An entity that provides access to MAC layer An entity that provides access to the Destination System			
Option D:	An entity that provides access to the Destination System An entity that provides access to Basic Service Set			
S ~ / 3 U 3 U 3	- Provides access to Dasic Service Ser			

Option B:	John McCarthy	
Option C:	Russel Stuart	
Option D:	Andrew Ng	

Q2. (20 Marks)	Solve any Four out of Six 5 marks each		
A	Explain WUMPUS world environment giving its PEAS description Explain how percept sequence is generated.		
В	Write a short note on conditional probability and its role in Al.		
С	What are the limitations of Hill Climbing Search and how that can be overcome? °		
D	Explain the concept of Supervised Learning.		
Convert the following statements into predicate logic 1. All kings are persons. 2. Every city in Maharashtra has temple. 3. An Apple a day keeps doctor away. 4. Anything anyone eats and is not killed by is food. 5. Square of 3 is 9.			
F	Explain the steps involved in Natural Language Processing.		

Q3. (20 Marks)	Solve any Two Questions out of Three 10 marks each		
A	Consider the following facts: 1. Steve only likes easy courses. 2. Science courses are hard. 3. All the courses in the basket_weaving department are easy. 4. BK301 is a basket_weaving course. Find by resolution that "What course would steve like?"		
В	List down all agent types. Explain each with block diagram.		
*	Apply A* algorithm on the following graph. Heuristic values are $h(S) = 15$, $h(A) = 14$, $h(D) = 12$, $h(B) = 10$, $h(E) = 10$, $h(C) = 8$, $h(F) = 10$, $h(G) = 0$. S is the start node and G is the goal node.		
C	3 A 4 B 4 C S 5 5 5 G		

Q4. (20 Marks)		
A	Solve any Two	5 marks each
i.	Give types of parsing and generate the parse tree for a sentence "The cat ate the fish".	
ii.	Explain Simulated Annealing with suitable example.	
iii.	Differentiate between Informed search and uninformed search Algorithms.	
В	Solve any One	10 marks each