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**SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)**  
**SRKR MARG, CHINNA AMIRAM, BHIMAVARAM-534204,W.G.Dt., A.P., INDIA.**

**II MID TERM EXAMINATIONS**

**DESCRIPTIVE EXAMINATION**

Class: III B. Tech I Semester

Program: CSE

Course Name: ARTIFICIAL INTELLIGENCE

Course Code: B20CS3104

AY: 2024-25

Date: 14-11-2024

Max. Marks: 15 M

Duration: 1 ½ Hrs

	UNIT-III	CO	KL	M
1.	Explain about Unification algorithm. Apply unification algorithm to find the out put of the following predicates a) Like(John, Marcus) Like (x,y) b) Like(John, Marcus) Like Johnx,y) c) Like(John, Marcus) Like (x,Marcus) d) Friends(X,Y) Like ( John,Marcus)	CO3	K3	5
	OR			
2	Explain Resolution algorithm in Predicate logic.  Consider the following facts  John likes all kind of food. Apple and vegetable are food. Anything anyone eats and not killed is food. Anil eats peanuts and still alive. Harry eats everything that Anil eats. Apply resolution algorithm to Prove: John likes peanuts.	CO3	K3	5
	UNIT-IV			
3.	Explain semantic nets and partitioned semantic networks Construct Partitioned semantic for the following a) Every dog has bitten the postman b) Every dog has bitten every postman	CO4	K2	5
	OR			
4.	Describe Bayesian Networks with neat example	CO4	K2	5
	UNIT-V			
5.	.Describe the structure of expert systems with neat diagram	CO5	K2	5
	OR			
6.	Discuss the importance of NLP and Explain about different steps of NLP	CO5	K2	5

KL □ Knowledge Level

CO □ Course Outcome

M □ Marks

## OBJETIVE EXAMINATION

Max. Marks: 10 Marks

Duration: 20 Min.

Answer ALL Questions & Each Question Carries ½ Mark

1)	The well-formed formula in conjunctive normal form is called ----- a) WFF                      b) Prenex normal form                      c) BNF                      d) clause	
2)	A clause does not have: a) □ symbol      b) Quantifiers      c) AND symbol      d) All of the above	
3)	Unification of Hate (x, y) and Hate ( Marcus, Caesar) will give a) x/Marcus      b) Marcus/x      Caesar/y                      c) Caesar/y                      d) None	
4)	Unification of Hate (x, y) and like ( Marcus, Caesar) will give a) x/Marcus      b) Marcus/x      Caesar/y                      c) Caesar/y                      d) Fail	
5)	Which of the following are the components of script a) Entry conditions      b) props, Roles                      c) Scenes                      d) ALL of the above	
6)	ATRANS primitive represents: a) Giving an object    b) eating      c) physical transferring of an object                      d) none	
7)	PTRANS primitive represents: a) Giving an object    b) eating      c) physical transferring of an object                      d) none	
8)	Which of the following are advantages of Prolog: a) supports easier pattern matching and searching data features.      B) does not use complex algorithms and coding.                      c) maintains and operates data lists with easy coding.                      D) All of the above	
9)	In Bayes theorem, what is meant by P(H <sub>i</sub>  E)? a) The probability that hypotheses H <sub>i</sub> is false given false evidence E b) The probability that hypotheses H <sub>i</sub> is true given evidence E c) The probability that hypotheses H <sub>i</sub> is false given evidence E d) The probability that hypotheses H <sub>i</sub> is true given false evidence E	
10)	In semantic net representation instance represents: a) Class member                      b) Class inclusion                      c) no instance in semantic net                      d) super class	
11)	In semantic net representation ISA represents: a) Class member                      b) Class inclusion                      c) no instance in semantic net                      d) super class	
12)	---- Reasoning is the process that does not change its direction or can say that it moves in the one direction. a) Statistic      b) Non monotonic      c) Monotonic      d) none	
13)	---- Reasoning is the process that does change its direction or can say that it moves in the one direction. a) Statistic      b) Non monotonic      c) Monotonic      d) none	
14)	Natural language processing (NLP) <b>describes the interaction between human language and computers.</b> A) CD                      b) Expert System      c) Planning      d) NLP	
15)	What is tokenization in NLP? A) The process of analyzing sentence structure                      B) The process of converting text into numerical data <b>C) The process of splitting text into individual words or phrases</b> D) The process of correcting grammatical errors	
16)	Which of the following is a component of expert system? a) user interface                      b) explanation sub system    c) Knowledge base                      d) all of the above	
17)	_____ is also called as Goal stack planning a. Hierarchical planning      b) Linear planning                      c) Non Hierarchical planning      d) Non-linear planning	
18)	In goal stack planning, the problem solver makes use of a single stack that contains? A. Sub goals and Operators                      B. only sub goals                      C. only opertors                      D. None of the above	

[illegible][illegible]