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MCA
(SEM IV) THEORY EXAMINATION 2021-22
NATURAL LANGUAGE PROCESSING

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If you require any missing data, then choose suitably.**SECTION A****1. Attempt all questions in brief. 2*10 = 20**

Qno	Questions	CO
(a)	List the applications of natural language Processing.	1
(b)	Why the study of language is important?	1
(c)	What do you mean by Knowledge?	2
(d)	Define database system.	2
(e)	What is the role of Grammar in language learning?	3
(f)	Define parsing process.	3
(g)	Write about the auxiliary verbs.	4
(h)	What is the advantage of encoding process in language processing.	4
(i)	Define ambiguity process.	5
(j)	What is the importance of logical form in language processing.	5

SECTION B**2. Attempt any three of the following: 10*3 = 30**

Qno	Questions	CO
(a)	Explain the Organization of natural language understanding system.	1
(b)	Discuss the process of machine translation with example.	2
(c)	Explain the Augmented transitions network.	3
(d)	Illustrate about the Deterministic Parser in details.	4
(e)	Write in details about the Encoding Ambiguity in logical form.	5

SECTION C**3. Attempt any one part of the following: 10*1 = 10**

(a)	Write about the Evaluating process of language understanding system.	1
(b)	Explain the different levels of language analysis process.	1

4. Attempt any one part of the following: 10 *1 = 10

(a)	Discuss the process of database interference with example.	2
(b)	Illustrate about the knowledge representation and its techniques.	2

5. Attempt any one part of the following: 10*1 = 10

(a)	Discuss on the topic of Morphological Analysis in details.	3
(b)	Write down about the Top-down chart parsing with example.	3

6. Attempt any one part of the following: 10*1 = 10

(a)	Explain the concept of context free Grammar with proper example.	4
(b)	Write short notes on (i) Human preference (ii) verb phrases	

7. Attempt any one part of the following: 10*1 = 10

(a)	Discuss about the probabilistic context free grammar.	5
(b)	Explain the concept of Best first parsing process.	5