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BTECH
(SEM VIII) 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.****10*2=20**

Q.no	Questions	Marks	CO
(a)	What do you mean by Semantics in Natural Language Processing?	2	2
(b)	Define the term Natural Language.	2	1
(c)	Discuss about the concept of knowledge.	2	2
(d)	What is the concept of Parsing?	2	3
(e)	What are the Applications of Natural Language Processing (NLP)?	2	1
(f)	Briefly define Probabilistic Language Processing (PLP).	2	5
(g)	What do you mean by Grammars for Natural Language?	2	4
(h)	What is the concept of Top-Down and Bottom-Up Parsers?	2	3
(i)	What is the need of Verb Phrases in Natural Language Processing?	2	4
(j)	What do you mean by the Ambiguity?	2	5

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

Q.no	Questions	Marks	CO
(a)	Discuss about the Statistical Methods under the Ambiguity Resolution.	10	5
(b)	Describe in detail about the Machine Translation.	10	2
(c)	Describe Feature Systems and Augmented Grammar under Grammars and Parsing.	10	3
(d)	Describe in detail about the Movement Phenomenon in Language.	10	4
(e)	What is the Concept of Evaluating Language Understanding Systems?	10	1

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

Q.no	Questions	Marks	CO
(a)	Discuss in brief about the concept of Probabilistic Context-Free Grammars.	10	5
(b)	Discuss about the following: (i) Basic Feature system for English. (ii) Morphological Analysis.	10	2



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

Q.no	Questions	Marks	CO
(a)	Discuss in detail about the Different levels of Language Analysis.	10	1
(b)	Discuss about the following: (i) Transition Network Grammars. (ii) Top- Down Chart Parsing.	10	3

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

Q.no	Questions	Marks	CO
(a)	Describe in detail about Handling questions in Context-Free Grammars.	10	4
(b)	Discuss in brief about the Word senses and Ambiguity under the Ambiguity Resolution.	10	5

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

Q.no	Questions	Marks	CO
(a)	Discuss about the database interface under the Natural Language Understanding.	10	2
(b)	Mention about the Organization of Natural language Understanding Systems.	10	1

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

Q.no	Questions	Marks	CO
(a)	Describe about the Augmented Transition Networks.	10	3
(b)	Describe in detail about the Human preferences in Parsing.	10	4