MASTER OF ARTS EXAMINATION, 2017

(2nd Year, 4th Semester) LINGUISTICS

Computational Linguistics

Course: XIII

Time: Two hours

Full Marks: 30

Answer any three of the followings selecting at least one from each part.

- PART I 1. a) Text Segmentation is an important process. How do you prove that it is relevant to your mother tongue? b) What do you mean by the two-level Morphology? Elaborate with examples referring these features. 2. a) Describe context free grammar and its properties with examples. b) Describe Lexical functional Grammar in brief with special reference to the levels of structure. 3. What do you mean by Corpus? Write a note on different aspects of the development of a Machine readable Corpus and its types. Describe its relevance of it in respect of the present context natural language processing. 4. a) Develop a model of FSA for the generation of simple dollars and cents . 5 b) Develop a derivation model using the FST for the following English Adjectives: big, bigger, biggest; clear, clearer, clearest, clearly, unclearly; happy, happier, happiest, happily. Part - II
- a) How do the probability of a word can be computed?
 b) What is "Zeugma" test?
 c) Perfect synonymy is rare. Explain this
 d) What are the other different relations by which the hyponeym-hypernym relation can be expressed?
 e) Discuss the pathbase method of determining word similarity.
- 7. a) Discuss "Vauquois triangle" along with the depth of analysis . 3b) Discuss some linguistic problems along with examples that need to be addressed in MT. (4)
 - c) Briefly discuss the three process in example based MT-matching alignment and recombination. (3)
- 8. Define (any 4): Synset, meronym, homonym, Speech synthesis, Chunking, flowchart, homograph-homophone 10.