

EGE UNIVERSITY, DEPT. OF COMPUTER ENGINEERING

AUTOMATA THEORY 2012-2013 FALL

HOMEWORK-1

Please answer the following questions selected from the textbook.

This is a paper-pencil type homework. Write your answers on A4 sized sheets. Do not give a print out.

CHAPTER-3:

QUESTION-19 (Page 30)

Give a recursive definitions for the following languages over the alphabet {a, b}:

- i. The language EVENSTRING of all words of even length.
- ii. The language ODDSTRING of all words of odd length.
- iii. The language AA of all words containing the substring aa.
- iv. The language NOTAA of all words not containing the substring aa.

CHAPTER-4:

QUESTION-18 (Page 50)

Describe (in English phrases) the languages associated with

Answer parts i through vi.

CHAPTER-5:

QUESTION-17 (Page 73)

Answer parts i through iv.

Due Date: November 9, 2012 Friday.

Deliver your homework to Res. Asst. Rabia Korkmaz.