Part A: Guessing meaning from context

Read the following passage carefully, which is about Stuxnet, a famous computer malware. Then try to guess the meaning of the words and phrases marked in underlined bold, based on the context and your past knowledge about similar terms. Reason about your guess and explain its rationale. Your answer to this exercise can be in Farsi.

Unlike most malware, Stuxnet does little harm to computers and networks that do not meet specific requirements. The attackers took great care to make sure that only their designated targets were hit; it was a marksman’s job. While the worm spreads virally, it makes itself inert if Siemens software is not found on infected computers, and contains mechanisms to prevent each infected computer from spreading the worm to more than three others, and to erase itself on 24 June 2012.

Note: Since you should reason about your guess, simply looking up the terms in a dictionary will not be sufficient. You should guess the meaning from the above passage alone. However, you may use a dictionary for other terms which have not been marked.

Example: Suppose you wanted to guess the meaning of “subfield” in the following sentence: “Subfields of computing include computer engineering, software engineering, computer science, information systems, and information technology.” Then this could be your answer:

Part B: Identifying semantics in a body of texts

For each of the following ideas, try to find the most relevant place in units 0 to 4 of your textbook (including exercises) where the idea is expressed or somehow mentioned. Write down the corresponding sentence in the book, citing its page number.

Note: One objective of this exercise is to encourage you to read your textbook thoroughly. Use your dictionary extensively and make sure not to miss the meaning of any term or sentence in the units taught so far. (You will also probably need to look up many terms in this very assignment) You can also always ask the teacher by email if you're not sure about something.

1. Text-to-speech engines are used to convert text into voice.
2. Media streaming over the internet may consume a lot of bandwidth.
3. Thousands were stranded at the airport due to a computer glitch.
4. Luxury cars typically contain lots of built-in electronic gadgets.

5. Her 7-year-old son has learned to chat with his friends over the internet.

6. Is there a good offline task manager available for Android phones?

7. Many wireless mice depend on the Bluetooth protocol.

8. Each of these high-end servers can handle thousands of processes running concurrently.

9. A personal computer could be thought of as a “Jack-of-all-trades”. (Hint: Look up “Jack-of-all-trades” by searching it on the Web, though some dictionaries have it.)

10. Make sure your users have the option to opt out of receiving promotional emails, otherwise they may perceive them as spams.

Part C: Writing sound, meaningful sentences

Build meaningful sentences or very short passages using each of the following terms, or their derivatives/conjugates. Your writing should be exclusively about computer-related, preferably technical subjects. You can find conjugates for most entries in advanced dictionaries.

1. simultaneous (examples of conjugates: simultaneity, simultaneously)
2. recognize
3. classify
4. synthetic (example of a conjugate: synthesize)
5. scrap

2. Build five meaningful sentences or very short passages, each using at least one of the common sentence/phrase patterns you learned about in the class (including those mentioned in the slides uploaded to the course webpage), in the textbook or in the previous or current assignments. Your writing should be exclusively about computer-related, preferably technical subjects.