

CS490-004 Network Programming

Possible Quiz Questions (Quiz #5) - PART I

on September 29th, 2026

The following is a list of possible questions for our quiz on September 29th. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#1: What is “edge computing”?

#2: What was (is) the trigger for the IT industry to introduce “edge computing”?

#3: Mention at least three areas edge computing is popularly used today (not limited to those introduced in the classroom). What is the “common denominator” among them?

#4: What were the three generations before “edge computing” was introduced (answer this question by filling the blanks in the following table)?

1960's ~	
1980's ~	
2000's ~	
2015 ~	edge computing (extremely-distributed computing)

#5: What are “distributed systems”?

#6: What are (were) the issues in “distributed systems”?

#7: What are “cloud computing”? How are they different from “distributed systems”?

#8: What are the primary advantages in “cloud computing” over “distributed systems”? Mention at least a total of three different advantages (one of the three should be the one discussed in the classroom).

#9: What are the weaknesses in “cloud computing” that are (supposed to be) solved by “edge computing”?

#10: What improvement in the networking hardware that becomes one of the motivations for edge computing?

- #11:** Explain how is “edge computing” a promising (or necessary) programming model for “military drone controls”.
- #12:** Explain how is “edge computing” a promising (or necessary) programming model for “automated agriculture”.
- #13:** What are “edge servers”?
- #14:** What are “edge servers” for (what are the primary motivations for introducing “edge servers”)?
- #15:** What are “edge AI’s”?
- #16:** What are “edge AIs” for (what are the primary motivations for introducing “edge AI’s”)?