

CS 490-004 Network Programming
Fall 2026
Quiz #5 on October 1, 2026 (**SOLUTIONS**)

Your Last Three Digits: _____
(please do NOT write all of your student ID or your name)

Grade: _____

(1) What is “edge computing”?

Edge computing is a model for developing distributed network applications (programs) that perform data processing and analyses at terminal devices, such as IoT-terminals and data-collecting devices (i.e., “sensors”).

(2) What are “distributed systems”?

Distributed systems are network applications that performs their tasks/functions as if they were a single system in such a way that users will (should) not see where their programs are being executed.

(3) What are (were) the issues in “distributed systems”?

The servers in a distributed systems need to be powerful enough to handle users’ requests at the peak time. This requirement often results in poorly utilized servers.

(4) Explain how is “edge computing” a promising (or necessary) programming model for “military drone controls”.

- Improve (reduce) the response time in network applications (“autonomous mobile devices” including drones).
- Avoid excess workload at a central server host computer.

(5) Explain how is “edge computing” a promising (or necessary) programming model for “military drone controls”.

Improve (reduce) the response time in network applications (“autonomous mobile devices” including drones).