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1. Which components of edge controller or edge Orchestrator is responsible for scheduling policy of offloading tasks in the Edge-Cloud system?

- ☒ a) Planner
- b) Infrastructure Manager
- c) Application manager
- d) None

2) — applications have high sensitivity to any delays in communications or computation during the interaction with the Edge-Cloud system

- a. Bandwidth-sensitive
- ☒ b. Compute-intensive
- c. Latency-sensitive
- d. Data intensive

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3) In the online Predictive Offloading (OPB) algo. based on Deep Reinforcement Learning (DRL) & Long Short-Term Memory (LSTM) networks, an LSTM is used for which of the following purpose?

- ☒ a. Predict the transmission delays
- ☒ b. Predict the characteristics of upcoming tasks
- c. Predict the load
- d. Predict a future val. fun.

4) What is the purpose of using a target network along with a base Q-network in Deep Q-learning

- a. Update the base Q-network at regular intervals
- b. Prevent overfitting of base Q-network
- c. Reduce co-variance b/w current & target
- ☒ d. A correlation b/w current & target

5) In deep Q-learning, using experience replay can not only make training more efficient, but also reduce

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that is generated by the training process.

- a. the covariance in Q-values
- b. the error in Q-values
- ☒ c. the overfitting of Q-values
- d. None

6. In vertical offloading, an edge node can transfer offloaded tasks to a neighboring edge node for efficient resource utilization. The statement is:

- a. True
- ☒ b. False

7. ~~input~~ input workloaded scenarios could occur due to sudden spike in requests from one geographical location or due to a particular type of workload that is more suited to being processed locally at the edge.

- a. Balanced
- ☒ b. Unbalanced
- c. Homogenous
- d. Heterogenous

8. In non-FIFO model, a channel acts like a set in which the sender process adds messages & the receiver process removes " from it in a random order. The stmt is :-

- a) True b) False

9. Select the uses of global snapshot of a system.

- a. Checkpointing
b. Garbage collection
c. Deadlock detection
d. All of them

10. Recording the global state of a distributed system becomes non-trivial because of which of the following?

- a. Lack of global shared memory
b. " " " clock
c. Unpredictable messaging delay
d. All of the above