

# QUIZ TIME

Microbiology

Done by: Lemar Mustafa

Lec: 10



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طب الأسنان

1-Which of the following best explains why bacterial growth does not begin immediately after inoculation into a new medium?

- A. Cells are dividing rapidly.
- B. Cells are metabolically inactive.
- C. Cells are adapting and synthesizing necessary components for growth.
- D. The nutrients in the medium are exhausted.

Ans:C

2-Which of the following correctly differentiates between the lag phase and the stationary phase of bacterial growth?

- A. In lag phase, cells divide rapidly ; in stationary phase, no division occurs.
- B. In lag phase, medium is not fresh ; in stationary phase, medium is fresh.
- C. In lag phase, no cell division occurs in fresh media ; in stationary phase, division rate equals death rate in non-fresh media with waste accumulation.
- D. In lag phase, waste products accumulate ; in stationary phase, there is no waste.

Ans:C

3-In which phase of bacterial growth is the rate of new cell formation balanced by the rate of cell death?

- a) Lag phase
- b) Stationary phase
- c) Exponential (log) phase
- d) Decline (death) phase

Correct answer : b) Stationary phase

4-The bacterial cells are at their metabolic peak during:

- a- Lag phase
- b- Stationary phase
- C- Log phase
- d- Decline phase

Ans:C

5-During which phase of the bacterial growth curve do cells divide at a constant and maximal rate?

- A) Lag phase
- B) Log (exponential) phase
- C) Stationary phase
- D) Death phase

Ans:B

6-Which phase illustrates unbalanced growth, where some cellular components increase faster than others?

- A) Lag phase
- B) Log phase
- C) Shift-up or shift-down conditions
- D) Death phase

Answer:C)



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