

Microbiology

Archive

Lecture 3

Medical card

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Microbiology

Lecture 3

1. The way to get Carbon from Carbon dioxide in the night

- a) chemoheterotrophs
- b) photoheterotrophs
- c) chemoautotrophs
- d) photoautotrophs

answer : c

2. Two bacteria are started growing in an ideal growth environment, How many organisms after three growth cycles will you count? Select one :

- a. 2
- b. 4
- c. 8
- d. 16
- e. 32

answer:d

3. In which phase of bacterial growth are the number of growing equal to the number of dying bacteria? Select one :

- a. Lag
- b. Log
- c. Stationary.
- d. Death.
- e. Eclipse.

Answer:c

4. The average size of cells during the exponential phase of growth is:

- a) smaller than the lag phase
- b) larger than the lag phase
- c) none of these
- d) equal to the lag phase

Answer:a

5. The cell wall of gram-negative bacteria may contribute to the development of septic shock. Identify the component which is most associated with the induction of septic shock? Select one:

- a. Capsular protein
- b. Lipopolysaccharide
- c. Peptidoglycan
- d. Phospholipid
- e. Teichoic acid

answer:b

6. Which of the following structures is never present in a Prokaryotic cell? Select one :

- a. Cell wall.
- b. Plasmid.
- c. Ribosome.
- d. Membrane-bound nucleus.
- e. Cell membrane.

Answer:d

7. Which of the following structures can pass from one bacterium to another?

Select one:

- a. Plasmid
- b. pilus
- c. Capsule
- d. Plasma Membrane
- e. Cell wall

Answer: a

8. Most strains resist phagocytosis by:

- a) Capsule
- b) Cell membrane
- c) Cytoplasm

Answer: a

9. One of the following bacteria has lipopolysaccharides in its cell wall:

- a) gram-positive bacteria
- b) gram-negative bacteria
- c) streptococci

Answer: b

10. The phase at which bacteria grow at a rapid rate:

- a) lag phase
- b) logarithmic phase
- c) stationary phase
- d) Death phase

Answer: b

11. One of the following is internal to the cell wall:

- A- Mesosomes
- B- Flagella
- C- Pili
- D- Capsule

Answer: a

12. Symbiotic:

Answer: Bacteria grow in partnership with other living organisms

13. All the following are true except:

- A) Episome always found in cytoplasm
- B) Capsule may have antiphagocytic activity
- C) Mesosomes increase surface area
- D) Inclusion bodies save material
- E) Cytoplasmic membrane the same in gram positive and gram negative

Answer: a

14. Which of the following is false: which of the following is false:

- a. O antigen can act as endotoxins
- b. Lipid A stabilizes outer membrane structure
- c. Lipid A may cause septic shock

Answer: A

15. The best description of lag phase is:

- a) maximum growth
- b) rate of cell growth equal rate of cell death
- c) initiation adjustment

Answer: c

16. One of the following external to cytoplasmic membrane:

- A. Mesosomes
- B. Capsule
- c. DNA

answer: b

17. All the following are true except:

- A. Pili always present on the surface of Gram -ve
- B) Capsule may have antiphagocytic activity
- C) Mesosomes increase surface area
- D) Inclusion bodies save material
- E) Cytoplasmic membrane the same in gram positive and gram negative

answer: a

18. Lag phase is called:

- A-adjustment phase EX
- B-death phase
- C-stationary
- D-maximal growth

answer: a