

Microbiology

Archive

Lecture 4

Medical card

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1. The temperature that describes the maximal possible rate at which organisms grow: a) optimum temperature b) Cardinal temperature c) maximum temperature d) minimum temperature

Answer:a

2. The convenient temperature range for the mesophiles:

- a) 40-60
- b) 25-40
- c) 60-80

Answer:b

3. Organisms that do not and may even be killed by oxygen:

- a) aerobes
- b) facultative
- c) anaerobes
- d) Aerotolerant anaerobes

Answer:c

4. The breakdown of cellular constituents (cell wall, proteins, fatty acids, nucleic acids) called:

- a) Anabolism
- b) catabolism

Answer:b

5. Aerobic bacteria are? Select one :

- a. Only grow anaerobically
- b. Only grow in the presence of CO_2
- c. Ordinarily anaerobe but can grow with CO_2 .
- d. Ordinarily aerobic but can grow in absence of O_2 .
- e. Only grow aerobically .

Answer:e

6. Most of pathogenic bacteria can live in the following temperature range? Select one:

- a. Mesophile
- b. Psychrophile.
- c. Thermophile.
- d. Capnophiles
- e. Hyperthermophile.

Answer:a

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7. Extreme halophiles are characterized by? Select one:

- a. Requiring high levels of carbon for growth
- b. Requiring high levels of Nitrogen for growth
- c. Requiring high level of Copper for growth
- d. Requiring high levels of Zinc for growth
- e. Requiring high levels of Salts for growth

Answer: e

8. Lack of antioxidant enzymes:

- A. Anaerobes
- b. Aerobes
- c. Microaerophile
- d. Macroaerophiles

Answer: a

9. One of the following is true regarding free radicals. One of the following is true regarding free radicals

- a. Hydrogen peroxide breaks down by catalase only
- b. Superoxide free radical inhibition by two enzymes
- c. Hydrogen peroxide breaks down by peroxidase only
- d. Superficial free radical inhibition by one enzyme

Answer: b

10. At which temperature do extreme thermophiles grow?

Answer: 80 and above

11. When you culture bacteria without known requirement for oxygen, at the second day you found bacteria at the bottom and surface (at the surface more than bottom) the true concept of this bacteria is:

- 1) microaerophile
- 2) obligate anaerobe
- 3) obligate aerobe
- 4) facultative anaerobe

Answer: 4

12. The final electron acceptor in aerobic respiration: The final electron acceptor in aerobic respiration:

- A. Nitrate
- B. Sulfate
- C. Oxygen

Answer: c

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13. When a bacteria grown in a test tube, it spread all over the tube with aggregation at the top of it, which kind of bacteria?

Answer: Facultative anaerobic

14. Bacteria grow in human body:

- A. Mesophils & neutrophils
- B. Mesophils & acidophilus
- C. Mesophiles & halophiles
- D. Acidophiles & halophiles
- E. Acidophiles & neutrophiles

answer:a

15. The vibrio cholerae is :

- A. Alkaliphile
- B. Neutrophile
- C. Acidophile
- D. Halophile

answer: a

16. Archaeobacteria?

- A. Mesophiles
- B. Thermophiles
- C. Extreme Thermophiles
- D. Optimum growth between 20 to 40 C
- E. Optimum growth between 50 to 60 C

answer:C

17. Penicillin is most effective against bacteria during which growth phase?

- A) Lag phase
- B) Exponential (log) phase
- C) Stationary phase
- D) Death phase

answer:B

18. Which type of bacteria requires high salt concentrations and can live in environments like the Dead Sea

- A) Non-halophilic bacteria.
- B) Facultative halophiles.
- C) Obligate (extreme) halophiles.
- D) Acidophiles.

Answer:C