



مقدم من فريق أفق الطبي



Question 1

Answer saved

 Flag question

Hypotension, shock, and impaired perfusion of essential organs that induced by Gram negative endotoxins are due to all of the following cytokines EXCEPT.

- ☒ a. C3b
- ☐ b. None of the answers can be excepted
- ☐ c. Bradykinin
- ☐ d. Nitric oxide
- ☐ e. Tumor necrosis factor

 [Clear my choice](#) 

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Question 2

Not yet answered

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Which bacteria can tolerate exposure to oxygen but do not use it for metabolism.

- ☐ a. Capnophiles
- ☐ b. None of these
- ☐ c. Obligate aerobes
- ☒ d. Aerotolerant anaerobes
- ☐ e. Facultative anaerobes

[Clear my choice](#)

Question 3

Not yet answered

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Peptostreptococcus species are primarily associated with infections in which areas.

- ☐ a. Central nervous system
- ☐ b. Urogenital system
- ☐ c. None of the answers is correct
- ☐ d. Gastrointestinal tract
- ☒ e. Respiratory tract

[Clear my choice](#)

Question 4

Not yet answered

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Which component in the cell wall of Gram-negative bacteria is responsible for the toxic effects.

- ☐ a. Teichoic acid
- ☐ b. Core polysaccharide
- ☐ c. O antigen
- ☒ d. Lipid A

[Clear my choice](#)

Question 5

Not yet answered

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β -Lactam drugs like penicillin are effective during the stationary phase of bacterial growth.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question 6

Not yet answered

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What is the main function of macrophages in the granulomatous response?

- ☐ a. Neutralizing toxins
- ☐ b. None of answers is correct
- ☐ c. Producing antibodies
- ☒ d. Engulfing bacteria and producing proinflammatory cytokines
- ☐ e. Complement activation

[Clear my choice](#)

Question 7

Not yet answered

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Viridans group streptococci that may cause endocarditis is one of the human microbiome, The most likely source of this organism is.

- ☐ a. None of the answers is correct
- ☐ b. Urethra
- ☒ c. Throat
- ☐ d. Vagina
- ☐ e. Skin
- ☐ f. Duodenum

[Clear my choice](#)

Question 7

Not yet answered

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- ☐ d. Vagina
- ☐ e. Skin
- ☐ f. Duodenum

[Clear my choice](#)

Question 8

Not yet answered

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A transposon carrying an antibiotic resistance gene can be transferred from one bacterium to another by transformation and transduction but not by conjugation.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question 9

Not yet answered

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Treponema pallidum is the causative agent of.

- ☐ a. Leptospirosis
- ☐ b. Yaws
- ☒ c. None of the answers is correct
- ☐ d. Lyme disease
- ☐ e. Osteomyelitis

[Clear my choice](#)

Question 10

Not yet answered

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Exfoliatin produced by *Streptococcus pyogenes* causes detachment of the superficial layers of the skin.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question 11

Not yet answered

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Helicobacter pylori and Campylobacter jejuni are examples of bacterial infections that associated with human cancers.

- ☐ a. False
- ☒ b. True

[Clear my choice](#)

Question 12

Not yet answered

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What disease is caused by *Coxiella burnetii*.

- ☐ a. Scarlet fever
- ☐ b. Pontiac fever
- ☐ c. Typhus
- ☒ d. None of the answers is correct
- ☐ e. Rocky Mountain spotted fever
- ☐ f. Trachoma

[Clear my choice](#)

Question 13

Not yet answered

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Erythrogenic toxin, produced by *Streptococcus pyogenes*, causes the rash characteristic of scarlet fever.

- ☐ a. False
- ☒ b. True

[Clear my choice](#)

The causative agent of anthrax (*Bacillus anthracis*) has a polypeptide capsule that can be used in vaccine preparation against this disease.

- ☒ a. False
- ☐ b. True

[Clear my choice](#)

Which one of the following is the most accurate description of the structural differences between gram-positive bacteria and gram-negative bacteria.

- ☐ a. Gram-positive bacteria have an outer lipid-rich membrane, whereas gram-negative bacteria do not
- ☐ b. Gram-positive bacteria have capsules, whereas gram-negative bacteria do not
- ☐ c. Gram-positive bacteria have a thin peptidoglycan layer, whereas gram-negative bacteria have a thick layer
- ☒ d. None of the answers is correct
- ☐ e. Gram-positive bacteria form a sex pilus that mediates conjugation, whereas gram-negative bacteria do not
- ☐ f. Gram-positive bacteria have plasmids, whereas gram-negative bacteria do not

[Clear my choice](#)

Question 17

Not yet answered

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In a fermentation test with phenol red, the medium turns yellow if the sugar is fermented.

- ☒ a. True
- ☐ b. False

[Clear my choice](#)

Question 18

Not yet answered

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Diphtheria, botulinum, cholera, and erythrogenic toxins are encoded by plasmids and can be transferred by conjugation or transduction.

- ☐ a. True
- ☒ b. False

[Clear my choice](#)

Question 19

Not yet answered

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Some strains of *Clostridium perfringens* can cause food poisoning by producing enterotoxin that acts as a superantigen similar to the enterotoxin of which of the following bacteria.

- ☐ a. None of the answers is correct
- ☐ b. *Bacillus cereus*
- ☐ c. *Clostridium botulinum*
- ☐ d. *Vibrio cholerae*
- ☐ e. *Corynebacterium diphtheriae*
- ☒ f. *Clostridium difficile*

[Clear my choice](#)

Question 20

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In the process of studying how bacteria cause disease, it was found that a rare mutant of a pathogenic strain failed to form a capsule. Which one of the following statements is the most accurate in regard to this unencapsulated mutant strain.

- ☐ a. It was highly pathogenic because it could secrete larger amounts of exotoxin
- ☐ b. It was nonpathogenic primarily because it could only grow anaerobically
- ☐ c. It was nonpathogenic primarily because it could not invade tissue
- ☒ d. It was nonpathogenic primarily because it was easily phagocytized
- ☐ e. It was highly pathogenic because it could secrete larger amounts of endotoxin

[Clear my choice](#)

Question 21

Not yet answered

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Which bacteria are killed by higher concentrations of oxygen but grow best in low oxygen levels.

- ☐ a. Capnophilic organisms
- ☐ b. Obligate aerobes
- ☒ c. Microaerophilic bacteria
- ☐ d. None of these
- ☐ e. Aerotolerant anaerobes

[Clear my choice](#)

Question 22

Not yet answered

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Which bacteria require high levels of carbon dioxide for growth.

- ☐ a. *Pseudomonas aeruginosa*
- ☐ b. *Escherichia coli*
- ☒ c. None of the answers is correct
- ☐ d. *Staphylococcus aureus*
- ☐ e. *Clostridium perfringens*

[Clear my choice](#)

Question 23

Not yet answered

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Borrelia burgdorferi is primarily transmitted by.

- ☐ a. Fleas
- ☒ b. None of the answers is correct
- ☐ c. Lice
- ☐ d. Mosquitoes
- ☐ e. Inhalation
- ☐ f. Fecal oral transmission

[Clear my choice](#)

Question 24

Not yet answered

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What term is used to describe the acquisition of a new organism that attaches and grows on a mucosal membrane.

- ☐ a. Invasion
- ☐ b. Commensalism
- ☒ c. Infection
- ☐ d. Proliferation
- ☐ e. Microbiota
- ☐ f. None of the answers is correct

[Clear my choice](#)

Question 24

Not yet answered

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- ☒ f. None of the answers is correct

[Clear my choice](#)

Question 25

Not yet answered

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Defensins are highly anionic peptides that kill bacteria by creating pores in its membranes.

- ☒ a. False
- ☐ b. True

[Clear my choice](#)

Question 27

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Not yet answered

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Which of the following microbial pathogens is not transmitted via respiratory tract.

- ☐ a. None of the answers is correct
- ☐ b. *Coccidioides immitis*
- ☐ c. *Haemophilus influenzae*
- ☒ d. *Trichinella spiralis*
- ☐ e. *Histoplasma capsulatum*
- ☐ f. Epstein-Barr virus

[Clear my choice](#)

Question 28

Not yet answered

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TSST, a superantigen produced by *S. aureus*, interacts with the β -chain of the B-cell receptor.

- ☒ a. False
- ☐ b. True

[Clear my choice](#)

Question 29

Not yet answered

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Quorum sensing is the process where bacteria detect their population density before synthesizing virulence factors.

- ☐ a. False
- ☒ b. True

[Clear my choice](#)

Question 30

Not yet answered

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A mutation caused by the insertion or deletion of base pairs, resulting in a shift in the reading frame, is called.

- ☒ a. None of the answers is correct
- ☐ b. nonsense mutation
- ☐ c. Missense mutation
- ☐ d. Silent mutation
- ☐ e. Base substitution

[Clear my choice](#)