

Address | Phone | Email Done by :Sondus Y AbuZaid

MCQS

Here are 10 multiple-choice questions (MCQs) based on the information provided in the text:

- 1. What is the Gram-negative bacterium that causes bacterial meningitis in children between 3 months and 5 years of age?
 - a) Neisseria gonorrheae
 - b) Neisseria meningitidis
 - c) Haemophilus influenzae
 - d) Bordetella pertussis
- 2. Which Gram-negative bacterium is associated with sexually transmitted diseases (STDs)?
 - a) Neisseria gonorrheae
 - b) Neisseria meningitidis
 - c) Haemophilus influenzae
 - d) Vibrio cholerae
- 3. Which bacterium is responsible for causing whooping cough?
 - a) Neisseria gonorrheae
 - b) Bordetella pertussis
 - c) Brucella
 - d) Shigella

4. Which Gram-negative bacterium is a common cause of diarrhea and bacillary dysentery?
a) Neisseria gonorrheae
b) Bordetella pertussis
c) Vibrio cholerae
d) Shigella
5. What is the causative organism for "rice water" diarrhea?
a) Campylobacter
b) Vibrio cholerae
c) Helicobacter pylori
d) Pseudomonas
6. Which bacterium is known to be a risk factor for gastric ulcers?
a) Haemophilus influenzae
b) Vibrio cholerae
c) Helicobacter pylori
d) Shigella
7. What color does nutrient agar turn when infected by Pseudomonas?
a) Red
b) Yellow
c) Greenish
d) Purple
8. Which bacterial family includes both facultative anaerobes that ferment glucose and are oxidase negative?

- a) Enterobacteriaceae
- b) Pseudomonas
- c) Brucella
- d) Campylobacter
- 9. Which Gram-negative bacterium is a fastidious organism that requires some chemicals from blood for growth?
 - a) Vibrio cholerae
 - b) Neisseria meningitidis
 - c) Haemophilus influenzae
 - d) Campylobacter
- 10. Which bacterium is problematic in hospitals, known as an opportunistic pathogen and resistant to many antibiotics?
 - a) Vibrio cholerae
 - b) Bordetella pertussis
 - c) Pseudomonads
 - d) Campylobacter

Answers and explanations:

Here are the answers and explanations for the MCQs based on the provided text:

1. What is the Gram-negative bacterium that causes bacterial meningitis in children between 3 months and 5 years of age?

Answer: c) Haemophilus influenzae

Explanation: Haemophilus influenzae is a Gram-negative bacterium associated with bacterial meningitis in young children, particularly those aged 3 months to 5 years.

2. Which Gram-negative bacterium is associated with sexually transmitted diseases (STDs)?

Answer: a) Neisseria gonorrheae

Explanation: Neisseria gonorrheae is a Gram-negative bacterium associated with sexually transmitted diseases (STDs).

3. Which bacterium is responsible for causing whooping cough?

Answer: b) Bordetella pertussis

Explanation: Bordetella pertussis is the causative bacterium for whooping cough.

4. Which Gram-negative bacterium is a common cause of diarrhea and bacillary dysentery?

Answer: d) Shigella

Explanation: Shigella is a Gram-negative bacterium that is a common cause of diarrhea and bacillary dysentery.

5. What is the causative organism for "rice water" diarrhea?

Answer: b) Vibrio cholerae

Explanation: Vibrio cholerae is the causative organism for "rice water" diarrhea, which is a symptom of cholera.

6. Which bacterium is known to be a risk factor for gastric ulcers?

Answer: c) Helicobacter pylori

Explanation: Helicobacter pylori is a bacterium that is a risk factor for gastric ulcers.

7. What color does nutrient agar turn when infected by Pseudomonas?

Answer: c) Greenish

Explanation: Nutrient agar turns greenish when infected by Pseudomonas.

8. Which bacterial family includes both facultative anaerobes that ferment glucose and are oxidase negative?

Answer: a) Enterobacteriaceae

Explanation: The Enterobacteriaceae family includes facultative anaerobes that ferment glucose and are oxidase negative.

9. Which Gram-negative bacterium is a fastidious organism that requires some chemicals from blood for growth?

Answer: c) Haemophilus influenzae

Explanation: Haemophilus influenzae is a fastidious Gram-negative bacterium that requires some chemicals from blood for its growth.

10. Which bacterium is problematic in hospitals, known as an opportunistic pathogen and resistant to many antibiotics?

Answer: c) Pseudomonads

Explanation: Pseudomonads are problematic in hospitals, as they are opportunistic pathogens and are known for their resistance to many antibiotics.

Regarding qs:

Here are 10 multiple-choice questions (MCQs) based on the provided text, each with 5 answer choices. You need to identify the incorrect sentence from the choices provided.

- 1. Regarding Haemophilus influenzae, find the wrong sentence from the following choices:
 - A. It is associated with bacterial meningitis in young children.
 - B. Most strains have a polysaccharide capsule that resists phagocytosis.
 - C. It was the most common form of meningitis in infants before the Hib vaccine.
 - D. Haemophilus influenzae is a Gram-negative coccobacillus.

- E. The use of the Hib vaccine has no impact on the disease caused by H. influenzae b.
- 2. Which of the following sentences about Neisseria gonorrheae is incorrect?
 - A. It is a Gram-negative intracellular diplococcus.
 - B. It is associated with sexually transmitted diseases (STDs).
 - C. Neisseria gonorrheae is one of the two major pathogenic species mentioned.
 - D. It is a causative organism for whooping cough.
 - E. It is known for its pathogenicity in STDs.
- 3. Find the incorrect statement about Bordetella pertussis from the following options:
 - A. It causes pertussis, also known as whooping cough.
 - B. Most cases of the disease are in children.
 - C. Bacteria are first inhaled in aerosols and multiply in epithelial cells.
 - D. The disease leads to a build-up of thick mucus causing intense coughing.
 - E. Bordetella pertussis can be found in numerous hospital locations.
- 4. Which statement is not true regarding Vibrio cholerae?
 - A. It is the most common species to infect humans.
 - B. Vibrio cholerae causes severe profuse watery diarrhea known as "rice water."
 - C. Humans become infected with V. cholerae through contaminated food and water.
 - D. Vibrio cholerae is typically found in communities with poor sewage and water treatment.
 - E. Vibrio cholerae can survive for up to 30 days in milk, eggs, and cheese.
- 5. Identify the incorrect statement about Helicobacter pylori:
 - A. It is a slightly helical, highly motile bacterium.
 - B. H. pylori produces numerous virulence factors that enable it to colonize the stomach.

- C. Drinking coffee, smoking, and alcohol consumption decrease the risk of ulcers.
- D. Simple blood, breath, and stool tests can determine H. pylori infection.
- E. Upper endoscopy is the most accurate way to diagnose H. pylori infection.
- 6. Which sentence does not accurately describe the Enterobacteriaceae family?
 - A. They are facultative anaerobes.
 - B. All members of this family ferment glucose.
 - C. They are oxidase negative.
 - D. Enterobacteriaceae are Gram-positive bacteria.
 - E. They include bacteria like Escherichia coli and Salmonella.
- 7. Regarding Shigella, which statement is incorrect?
 - A. Shigella is one of the leading causes of diarrhea and bacillary dysentery.
 - B. Most individuals become infected when ingesting food or water contaminated with fecal material.
 - C. Shigella outbreaks are common in areas with poor sanitation.
 - D. Shigella can survive for up to 30 days in certain food items.
 - E. Shigella is a Gram-negative bacterium.
- 8. What is the incorrect statement about Gram-negative bacilli?
 - A. Pseudomonas is a Gram-negative bacillus.
 - B. They include the Enterobacteriaceae family.
 - C. Non-lactose fermenters result in pink colonies on MacConkey's medium.
 - D. Lactose fermenters produce pale yellow colonies on MacConkey's medium.
 - E. Shigella is a Gram-positive bacillus.
- 9. Which sentence is not true about Campylobacter?

- A. Campylobacter is a Gram-negative diplococcus.
- B. It is associated with sexually transmitted diseases (STDs).
- C. Campylobacter is a bacterium of medical importance.
- D. Campylobacter is mentioned in the provided text.
- E. Campylobacter is not an intracellular bacterium.
- 10. Find the incorrect sentence about Brucella:
 - A. Brucella can cause brucellosis in humans through ingestion of contaminated milk or cheese.
 - B. Clinical manifestations of Brucella infection range from subclinical to acute with fever and chills.
 - C. Brucella is a Gram-positive bacterium.
 - D. Brucella can be transmitted through consumption of goat and cow products.
 - E. Brucella can cause low-grade symptoms of low fever and muscular stiffness.

Answers and explanations:

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