

Microbiology



1. Which of these bacterial components is least likely to contain useful antigens?

- Cell wall
- Flagella
- Ribosomes
- Capsule

2. Which of the following contains structures composed of N-acetylmuramic acid and N-acetylglucosamine?

- Mycoplasmas
- Amoeba
- E.coli
- Spheroplast
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3. The association of endotoxin in gram-negative bacteria is due to the presence of

- Steroids
- Peptidoglycan
- Lipopolysaccharides
- Polypeptide

4. The prokaryotic cell membrane

- Contains metabolic enzymes
- Is selectively permeable
- Regulates the entry and exit of materials
- Contains proteins and phospholipids

5. Which of the statements regarding gram staining is wrong?

- Mycobacterium tuberculosis stains blue because of the thick lipid layer
- Streptococcus pyogenes stains blue because of a thick peptidoglycan layer
- Escherichia coli stains pink because of a thin peptidoglycan layer
- Mycoplasma pneumoniae is not visible in the Gram's stain because it has no cell wall

6. Which of the following is not a recognised cause of diarrhoea?

- Vibrio cholerae
- Escherichia coli

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- Clostridium perfringens
- Enterococcus faecalis

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7. Which of the following is a gram-positive eubacterium?

- Actinomyces
- Clostridium
- Rhizobium
- Clostridium, Actinomyces

8. Which of the following microorganisms is not responsible for urinary tract infection?

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- Proteus mirabilis
- Escherichia coli
- Klebsiella pneumoniae
- Bacteroides fragilis

9. Which of the following is diagnosed by serologic means?

- Actinomycosis
- Q-fever
- Pulmonary tuberculosis
- Gonorrhoea

10. Diarrhoea is not caused by

- Shigella dysenteriae
- Streptococcus pyogenes
- Clostridium difficile
- Salmonella enteritidis

11. The coagulase is done to differentiate

- Staphylococcus aureus from Staphylococcus epidermidis
- Staphylococcus epidermidis from Neisseria meningitidis
- Streptococcus pyogenes from Enterococcus faecalis
- Streptococcus pyogenes from Staphylococcus aureus

12. Prokaryotic cells are more resistant to osmotic shock than eukaryotic cells because

- Their cell wall is composed of peptidoglycan

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- They are selectively permeable
- They contain osmoregulating porins
- They block water molecules from entering the cell

13. The bacterial genus where sterols are present in the cell membrane is

- Vibrio
- Mycoplasma
- Escherichia
- Chlamydia

14. The bacterium that infects other gram-negative bacteria is

- Proteus mirabilis
- Haemophilus influenza
- Bdellovibrio
- Pseudomonas putida

15. Which phage is used for phage display technique?

- T7
- M13
- λ -phage
- ϕ 6