

# 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
- Also Read: Microbiology

**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

- 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

- 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
- $\lambda$ -phage
- $\phi$ 6