

For More Questions [Click Here](#)

1. The identification of bacteria by serologic tests is based on the presence of specific antigens. Which of the following bacterial components is least likely to contain useful antigens?
 - a. Capsule
 - b. Cell wall
 - c. Flagella
 - d. Ribosomes**

2. Each of the following statements concerning the Gram stain is correct except:
 - a. *Escherichia coli* stains pink because it has a thin peptidoglycan layer
 - b. *Streptococcus pyogenes* stains blue because it has a thick peptidoglycan layer
 - c. *Mycoplasma pneumoniae* is not visible in the Gram's stain because it does not have a cell wall
 - d. *Mycobacterium tuberculosis* stains blue because it has a thick lipid layer**

3. An outbreak of sepsis caused by *Staphylococcus aureus* has occurred in the newborn nursery. You are called upon to investigate. According to your knowledge of the normal flora, what is the most likely source of the organism?
 - a. Nose**
 - b. Colon
 - c. Hand
 - d. Throat

4. Each of the following organisms is an important cause of urinary tract infections except:
 - a. *Klebsiella pneumoniae*
 - b. *Escherichia coli*
 - c. *Bacterioides fragilis***
 - d. *Proteus mirabilis*

5. A 30 year old woman has non-bloody diarrhea for the past 14 hours. Which one of the following organisms is least likely to cause this illness?
 - a. *Streptococcus pyogenes***
 - b. *Clostridium difficile*
 - c. *Shigella dysenteriae*
 - d. *Salmonella enteritidis*

6. Each of the following agents is a recognized cause of diarrhea except
 - a. *Clostridium perfringens*
 - b. *Vibrio cholerae*

c. *Enterococcus faecalis*

d. *Escherichia coli*

7. Each of the following statements about the classification of streptococci is correct except
- a. Pneumococci (*Streptococcus pneumoniae*) are alpha-hemolytic and can be serotyped on the basis of their polysaccharide capsule
 - b. Enterococci are group D streptococci and can be classified by their ability to grow 6.5% sodium chloride
 - c. **Viridans streptococci are identified by Lancefield grouping, which is based on the C carbohydrate in the cell wall**
 - d. Although pneumococci and the viridans streptococci are alpha-hemolytic, they can be differentiated by the bile solubility test and their susceptibility to optochin
8. Which of the following bacteria has the lowest 50% infective dose (ID₅₀)?
- a. *Campylobacter jejuni*
 - b. *Salmonella typhi*
 - c. *Vibrio cholerae*
 - d. ***Shigella sonnei***
9. Which of the following disease is best diagnosed by serologic means?
- a. Pulmonary tuberculosis
 - b. Gonorrhea
 - c. Actinomycosis
 - d. **Q Fever**
10. The coagulase test is used to differentiate
- a. *Staphylococcus epidermidis* from *Neisseria meningitidis*
 - b. ***Staphylococcus aureus* from *Staphylococcus epidermidis***
 - c. *Streptococcus pyogenes* from *Staphylococcus aureus*
 - d. *Streptococcus pyogenes* from *Enterococcus faecalis*