



مقدم من فريق أفق الطبي



Faculty of Medicine

Subject: General Microbiology

Fall Term:

Date: November 17, 2020

Course Number 6104211

Midterm Exam Second Year

الفترة الصباحية

Answer the following questions

#	Questions	a. True	b. False
1	Ribosomes are found in viruses.		
2	The flagella allows substances in and out of the bacteria.		
3	A plasmid is contained within the bacterial chromosome.		
4	Bacteria are best measured in nanometers?		
5	The main constituent of a Gram-positive cell wall is Peptidoglycan.		
6	Bacterial cells have a large surface to volume ratio.		
7	The cell wall may be a potential target for antibiotics.		
8	The space between the cytoplasmic membrane and the outer membrane is called the periplasm.		
9	The outer membrane contains porins?		
10	Peptidoglycan in gram + is much thicker than in gram – bacteria?		

11. Each of the following statements concerning penicillin is correct EXCEPT:

- A. An intact β -lactam ring of penicillin is required for its activity.
- B. Penicillin inhibits transpeptidases, which are required for cross-linking peptidoglycan.
- C. Penicillin is a bacteriostatic drug because autolytic enzymes are not activated
- D. The structure of penicillin resembles that of a dipeptide of alanine, which is a component of peptidoglycan.

12. The following are characteristics of Prokaryotic Cells except:

- A. They are bound by a flexible cell membrane
- B. Have a rigid external cell wall that contains peptidoglycan
- C. DNA within a nuclear membrane
- D. Contain smaller (70S) ribosomes
- E. Contain no organelles

13. The use of antibiotics that inhibit or inactivate cellular ribosomes will result directly in the loss of which of the following functions:

- A. Cell division
- B. ATP production
- C. Protein synthesis
- D. DNA replication

14. Which of the following bacteria has sterol in its membrane
- A. Staph aureus
 - B. Streptococci pneumoniae
 - C. Mycoplasma pneumoniae
 - D. Pseudomonas
15. Which of the following replicate by budding
- A. Bacteria
 - B. Viruses
 - C. Yeast
 - D. Toxoplasma
16. All of the following bacteria are motile except
- A. Treponema pallidum
 - B. Staphylococcus
 - C. Proteus
 - D. Klebsiella
17. The following bacteria stained by gram stain except
- A. Pseudomonas
 - B. Mycobacterium tuberculosis
 - C. Streptococcus viridans
 - D. Salmonella
18. Flagella and pili are made of
- A. lipids
 - B. protein
 - C. carbohydrates
 - D. nucleic acids
19. Which of these bacterial components is least likely to contain useful antigens?
- A. Cell wall
 - B. Ribosomes
 - C. Flagella
 - D. Capsule
20. Which of the following contains structures composed of N-acetylmuramic acid and N-acetylglucosamine?
- A. Mycoplasmas
 - B. E.coli
 - C. Amoeba
 - D. Spheroplast

21. The association of endotoxin in gram-negative bacteria is due to the presence of
- A. Steroids
 - B. Peptidoglycan
 - C. Polypeptide
 - D. Lipopolysaccharides
22. The prokaryotic cell membrane
- A. Contains metabolic enzymes
 - B. Is selectively permeable
 - C. Regulates the entry and exit of materials
 - D. Contains proteins and phospholipids
23. Which of the statements regarding gram staining is wrong?
- A. Streptococcus pyogenes stains blue because of a thick peptidoglycan layer
 - B. Escherichia coli stains pink because of a thin peptidoglycan layer
 - C. Mycoplasma pneumoniae is not visible in the Gram's stain because it has no cell wall
 - D. Mycobacterium tuberculosis stains blue because of the thick lipid layer
24. Which of the following is diagnosed by serologic means?
- A. Actinomycosis
 - B. Pulmonary tuberculosis
 - C. Gonorrhea
 - D. Q-fever
25. The coagulase is done to differentiate
- A. Staphylococcus epidermidis from Neisseria meningitidis
 - B. Streptococcus pyogenes from Enterococcus faecalis
 - C. Streptococcus pyogenes from Staphylococcus aureus
 - D. Staphylococcus aureus from Staphylococcus epidermidis
26. Which of the following microorganism is the major inhabitant of the skin?
- A. Staphylococcus epidermidis
 - B. Escherichia coli
 - C. Staphylococcus aureus
 - D. Streptococcus pyogens
27. Which of the following cocci shaped bacteria is usually seen in pairs?
- A. Klebsiella spp
 - B. Neisseria spp
 - C. Pseudomonas spp
 - D. Clostridium spp

28. The following are main features of exotoxin except
- A. Secreted from the bacteria
 - B. Polypeptide
 - C. Lipopolysaccharide
 - D. Highly antigenic
29. Which of the following immunoglobulin appears in the primary response
- A. IgG
 - B. IgE
 - C. IgA
 - D. IgM
30. Negri bodies are diagnostic features of which infection
- A. Herpes simplex
 - B. CMV
 - C. Measles virus
 - D. Rabies virus

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الفترة الصباحية

Student Name-----

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