Link câu hỏi trắc nghiệm tham khảo:

https://www.austincc.edu/lesalbin/BIOL%202420%20Chapter%207-

12%20Multiple%20Choice%20Questions.htm

Câu hỏi 1: Who was the first to observe bacteria with a microscope? *

Anotoni van Leeuwenhoek

Robert Hooke mô tả cái móc

Robert Koch bệnh than bệnh ngủ châu phi

Louis Pasteur tạo ra nước thịt

Câu hỏi 2: Which statement BEST describes where bacteria can be found? *

In our bodies

Almost everywhere

In super cold environments

In meat

Câu hỏi 3: A chemical that can kill bacteria without harming the human body is a(n) *

Water

Vaccine

Virus

Antibiotic

Câu hỏi 4: List 5 Characteristics of Living Systems *

Open system, motilyti, growth, differentitation, comunication, evolution

Question 1: Which of the following describes cocci in chains? *

A. streptococci

B. tetrads

C. diplococci

D. staphylococci

Question 2: Which three structures are possessed by ALL bacteria? *

A. cell membrane

B. cell wall

C. chromosome

D. ribosomes

Question 3: Which of the following describes Proteobacteria in domain Bacteria?

A. phylum

B. class

C. species

D. genus

Question 4: What makes bacteria and archaea different from eukaryotes? *

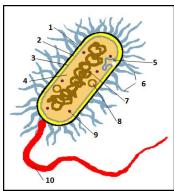
A. They have cell wall

B. They lack a nucleus

C. They have unicellular structure

D. All above are correct
Question 5: A cellular arrangement in which cells form a cubical package of 8 cells is
termed *
A. diplococci
B. tetrads
C. sarcina
D. staphylococci
Question 6: Bacilli are the term used for *
A. round bacteria
B. spiral bacteria
C. rod shaped bacteria
D. cluster shaped bateria
Question 7: A polysaccharide that helps the bacteria in adherence to the surface is named
as *
A. nucleoid
B. cytoplasm
C. cytoskeleton
D. glycocalyx
Question 8: The flagellum is made of *
A. proteins
B. sugars (glycocalyx)
C. lipids
D. polysaccharides
Question 9: The space between the outer membrane and plasma membrane is called
A. cytoplasm
B. periplasm
C. peptidoglycan
D. pseudomurein
Question 10: The compound microscope consists of two lenses known as *
A. objective and eyepiece lens
B. objective and condenser lens
C. eyepiece and ocular lens
D. none of above is correct
Question 11: In microscopy, the specimen appears dark and the microscopic
background is brightly illuminated *
A. dark field
B. bright field
C. both A and B are correct
D. both A and B are incorrect
Question 12: Lipopolysaccharide is found in cell wall of *

- A. Gram positive bacteria
- B. Gram negative bacteria
- C. Both A and B are correct
- D. Both A and B are incorrect



Question 13: The structure labelled "6" which helps transfer DNA from cell to cell during bacterial conjugation is called ____ *

- A. flagella
- B. fimbriae
- C. pili
- D. cilia

Question 14: In bacteria, DNA is not surrounded by a membrane. The region where DNA is located is labelled "7" and is called as ____

- A. nucleus
- B. plasmid
- C. nucleoid
- D. all above are correct

Question 15: It is a selectively permeable layer made up of phosphothelipids and proteins which is labelled "3" is ____ *

- A. cell wall
- B. cell membrane
- C. capsule
- D. slime layer

Question 16: The bacterium that cause anthrax disease is ____*

- A. Bacillus anthracis
- B. Bacillus anthrax
- C. Mycobacterium anthracis
- D. Mycobacterium anthrax

Question 17: All bacteria are photosynthetic *

- A. True
- B. False

Question 18: Koch's experiments established a relationship between microorganisms and disease *
A. True
B. False
Question 19: The overall shape of a bacterial cell is determined by which of the following? *
A. Cell membrane
B. Cytoskeleton
C. Nucleoid
D. All above are correct
Question 20: The association of endotoxin in Gram-negative bacteria is a result of the
presence of *
A. peptidoglycan
B. teichoic acid
C. Lipoprotein
D. Lipid A
Question 1: Viruses are *
A. obligate parasites
B. Free living
C. Both free living and parasitic
D. None of these
Question 2: The genetic material of viruses consists of either *
A. DNA
B. RNA
C. DNA or RNA
D. ssDNA or ssRNA
Question 3: The protein coat of virus is called as *
A. Nucleid
B. Capsid
C. Capsomere
D. Outer envelope
Question 4: Viruses that attacks bacteria are called *
A. Lysophage
B. Bacteriophage
C. Virophage
D. None of these
Question 5: Viral genome attached to the bacterial genome is termed as *
A. Prophage
B. Retrovirus
C. Lysogeny

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D. Lytic cycle
Question 1: A virus obtains its envelope during which of the following phases? *
             A. attachment
             B. penetration
             C. assembly
             D. release
Question 2: A positive-strand RNA virus: *
             A. must first be converted to a mRNA before it can be translated.
             B. can be used directly to translate viral proteins.
             C. will be degraded by host enzymes.
             D. is not recognized by host ribosomes.
Question 4: Which of the following leads to the destruction of the host cells? *
             A. lysogenic cycle
             B. lytic cycle
             C. prophage
             D. temperate phage
Question 5: What is another name for a non-enveloped virus? *
             A. enveloped virus
             B. provirus
             C. naked virus
             D. latent virus
Question 3: An obligate halophile requires high: *
             A. pH
             B. temperature
             C. salt
             D. pressure
Question 1: Archaea belongs to ... *
 Eukaryotes
 Prokaryotes
 Non-cellular organisms
 All above are correct
Question 2: Which is (are) the distinctive point(s) between Eubacteria and Archaea" *
 Cell membrane composition
 Cell wall composition
 RNA polymerase structure
 All above are correct
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Question 5: Which is the cell arrangement type of Staphylococcus aureus? *

Cocci in chains
Cocci in clusters

Cocci in pairs

Cocci in tetrad

Question 1: The flow of genetic material in microbial cells usually takes place from *

- A. RNA through DNA to proteins
- B. proteins through RNA to DNA
- C. DNA through RNA to proteins
- D. none of these

Question 2: Proteomics is *

- A. the study of algal genomes
- B. a branch of quantum physics dealing with proteins
- C. the study of formation of lipo-protein in animals
- D. the study of the entire collection of proteins expressed by an organism

Question 3: Which of the following is the study of the molecular organization of genomes, their information content and the gene products they encode? *

- A. Genetics
- B. Ergonomics
- C. Genomics
- D. Bioinformatics

Question 4: In the word "chromosome", the terms "chromo" means: *

- A. thread
- B. spindle
- C. colored
- D. visible

Question 5: The agents that can cause mutation are named as *

- A. mutagen
- B. carcinogen
- C. oncogene
- D. oncovirus

Question 1: The term prokaryotes refers to which of the following? *

- A. very small organisms
- B. unicellular organisms that have no nucleus
- C. multicellular organisms
- D. cells that similar to animal cells more than plant cells

Question 2: Which of the following is the organelle that spirochetes use to propel themselves? *

- A. plasma membrane
- B. pili
- C. fimbriae
- D. axial filament

Question 3: Archaea and Bacteria are most similar in terms of their *

A. unicellular structure

B. cell wall structure
C. cell membrane composition
D. All above are correct
Question 4: Which of the following is found in all prokaryotic cells? *
A. Ribosome
B. Cell wall
C. Flagella
D. Nucleus
Question 5: The extracellular appendage which helps in movement in bacteria *
A. Capsule
B. Flagella
C. Pili
D. Slime layer
Question 1: Which genus causes malaria? *
A. Euglena
B. Paramecium
C. Plasmodium
D. Trypanosoma
Question 2: Which polysaccharide found in red algal cell walls is a useful solidifying
agent? *
A. chitin
B. cellulose
C. phycoerythrin
D. agar
Question 3: Which of the following is a eukaryote? *
A. Bacteria
B. Virus
C. Archaea
D. Mold
Question 4: Differences between eukaryotic and prokaryotic cells include all of the
following except *
A. eukaryotic cells have mitochondria
B. eukaryotic cells have cilia and flagella with complex structure
C. prokaryotic cells have cell wall
D. prokaryotic cells have no genetic material
Question 5: The presence of membrane-enclosed organelles is a characteristic of *
A. prokaryotic cells
B. eukaryotic cells
C. all cells
D. viruses

Question 1: The time required for a cell to undergo binary fission is called the: *
A. exponential growth phase
B. growth curve
C. generation time
D. lag phase
Question 2: An organism that can synthesize all its required organic components from
CO2 using energy from the sun is a: *
A. photoautotroph
B. photoheterotroph
C. chemoautotroph
D. chemoheterotroph
Question 3: Which of these infectious agents do not have nucleic acid? *
A. viroids
B. viruses
C. bacteria
D. prions
Question 4: Which of the following is true of passive transport? *
A. it requires a gradient
B. it uses the cell wall
C. it includes endocytosis
D. it only moves water
Question 5: Active transport of a substance across a membrane requires: *
A. a gradient
B. the consume of ATP
C. water
D. diffusion
Question 1: An apoenzyme is where theis located. *
A. cofactor
B. coenzyme
C. redox reaction
D. active site
Question 2: A cell exposed to a hypertonic environment willby osmosis: *
A. gain water
B. lose water
C. neither gain nor lose water
D. burst
Question 3: Superoxide ion is toxic to strict anaerobes because they lack: *
A. catalase
B. peroxidase
C. dismutase

D. oxidase	
Option 5	
Question 4: In a viable	e plate count, eachrepresents afrom the sample population
A. cell, colony	
B. colony, cell	
C. hour, generation	
D. cell,generation	
Question 5:	_is another term for biosynthesis *
A. catabolism	
B. anabolism	
C. metabolism	
D. catalyst	