

Bio 260 (Microbiology) Final Exam 2024. All Questions & Answers.

_____ bacteriophages participate in this transfer

- a. transformation
- b. transduction
- c. mRNA
- d. tRNA
- e. rRNA - ANSb. Transduction

_____ carries the anticodon

- a. transformation
- b. transduction
- c. mRNA
- d. tRNA
- e. rRNA - ANSd. tRNA

_____ Carries the codon

- a. transformation
- b. transduction
- c. mRNA
- d. tRNA
- e. rRNA - ANSc. mRNA

_____ are disease causing microorganisms

- a. Archaea
 - b. Bacteria
 - c. Pathogens
 - d. Decomposers
 - e. both a and b
- (Exam I) - ANSc. Pathogens

_____ are the microorganisms that recycle nutrients by breaking down dead matter and wastes.

- a. Archaea
 - b. Bacteria
 - c. Pathogens
 - d. Decomposers
 - e. both a and b
- (Exam I) - ANSd. Decomposers

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In malaria, where do the asexual sporozoites undergo schizogony to form merozoites? - ANS In liver cells

In recombinant DNA technique, an enzyme called _____ is needed to seal the sticky ends of genes into plasmids or chromosomes

- a. Ligase
- b. Plasmids
- c. Base pairs
- d. Virus
- e. Palindromes - ANS a. Ligase

In the viable plate count method, a measured sample of a culture is evenly spread across an agar surface and incubated. Each _____ represents one _____ from the sample - ANS Colony, cell

In what developmental stage of the hemoflagellates does the organism possess a free anterior flagellum and an undulating membrane? - ANS Promastigote

In which stage of aerobic respiration is water produced? - ANS c. Electron transport system

Infectious protein particles are called - ANS Prions

Inorganic nitrogen must be converted to ammonia to be used by a cell - ANS True

Iodophors include: - ANS Betadine

Lipopolysaccharide is an important cell wall component of - ANS a. Gram-negative bacteria

Metabolic pathways that regenerate their starting point are called - ANS d. Cyclic Pathways

Microorganisms require large quantities of this nutrient for use in cell structure and metabolism - ANS Macronutrient

Microorganisms that live in severe habitats, such as very hot, acidic or salty environments, are called _____ - ANS Extremophiles

Most of the dry weight of a microbial cell is from _____ - ANS Organic compounds

Neisseria gonorrhoeae is: - ANS All of the choices are correct

Neisseria meningitidis and Neisseria gonorrhoeae are fastidious, gram-negative cocci that produce oxidase, true or false? - ANS True

- a. Chlamydia
 - b. Cyanobacteria
 - c. Mycoplasma
 - d. Rickettsia
 - e. both a and c
- (Exam I) - ANSc. Mycoplasma

This chronic (long lasting) sytemic (all systems) disease may eventually result in the production of gummas throughout the body

- a. Lyme disease
 - b. Rocky Mountain Spotted Fever
 - c. Syphilis
 - d. both a and b
 - e. both a and c
- (Exam I) - ANSc. Syphilis

This drug is used to treat cases of tuberculosis - ANSIsoniazid

This functions in cell wall maintenance and enlargement during cell division

- a. Capsule/slime layer
 - b. Outer membrane
 - c. Teichoic acid
 - d. All of these
 - e. both b and c
- (Exam I) - ANSc. Teichoic acid

This is improved by using shorter wavelengths of light.

- a. definition
- b. magnification
- c. resolution - ANSc. resolution

This layer aids bacteria in generating biofilms

- a. Capsule/slime layer
 - b. Outer membrane
 - c. Teichoic acid
 - d. All of these
 - e. both b and c
- (Exam I) - ANSa. Capsule/slime layer

This layer can protect a bacteria from phagocytosis by WBC

- a. Capsule/slime layer
- b. Outer membrane
- c. Teichoic acid
- d. All of these
- e. both b and c

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When DNA is heated to just below boiling (90C-95C) - ANSd. The two DNA strands separate completely

When enzyme action stops due to a buildup of end product, this control is - ANSe. Feedback inhibition

When humans manipulate the genes of microorganisms the process is called _____ (Exam I) - ANSGenetic engineering

When it is important to count the number of cells, determine cell size and differentiate between dead and live cells a _____ is used - ANSFlow cytometer

When microbes in close nutritional relationship and one benefits but the other is not harmed, it is called - ANSCommensalism

When patient tissues are transfected with viruses carrying a needed, normal human gene, the technique is called - ANSb. Gene therapy

Which bacteria could be responsible for hemolytic uremic syndrome (HUS)? - ANSE. coli O157:H7

Which bacterium was the first organism to produce oxygen as a byproduct of photosynthesis?

- a. Chlamydia
- b. Cyanobacteria
- c. Mycoplasma
- d. Rickettsia
- e. both a and c

(Exam I) - ANSb. Cyanobacteria

Which disease is caused by a spirochete?

- a. Lyme disease
- b. Rocky Mountain Spotted Fever
- c. Syphilis
- d. both a and b
- e. both a and c

(Exam I) - ANSc. Syphilis

Which disease is usually characterized by the early presence of a bull's-eye rash and tertiary symptoms of rheumatoid arthritis?

- a. Lyme disease
- b. Rocky Mountain Spotted Fever
- c. Syphilis
- d. both a and b
- e. both a and c