

Question 1

A child complains of intensely itchy "pimples" on the hands and wrists. The lesions are small inflamed streaks, but do not appear to contain pus. The child's condition may be the result of infection with

- A) Staphylococcus epidermidis.
- B) Sporothrix schenckii.
- C) Sarcoptes scabiei.
- D) Pseudomonas aeruginosa.
- E) Clostridium perfringens.

Answer: <https://biology-forums.com/index.php?topic=243088>

Question 2

A charged tRNA first enters the ribosomal _____ site and then moves into the _____ site.

- A) A, E
- B) P, A
- C) P, E
- D) A, P
- E) E, A

Answer: <https://biology-forums.com/index.php?topic=242395>

Question 3

The asexual spores of molds are classified according to their

- A) size.
- B) type of metabolism.
- C) number of chromosomes.
- D) shapes.
- E) mode of development.

Answer: <https://biology-forums.com/index.php?topic=242667>

Question 4

Which of the following quantification techniques can distinguish living cells from dead cells in a culture?

- A) microscopic counts
- B) dry weight
- C) metabolic activity
- D) a Coulter counter
- E) turbidity

Answer: <https://biology-forums.com/index.php?topic=242362>

Question 5

Young patients with fever blisters often have a severe infection called herpetic _____ in which lesions extend into the oral cavity.

Answer: <https://biology-forums.com/index.php?topic=243322>

Question 6

The use of salt and sugar in preserving various types of foods is an application of which of the following concepts?

- A) nitrogen fixation
- B) osmotic pressure
- C) pH
- D) hydrostatic pressure
- E) quorum sensing

Answer: <https://biology-forums.com/index.php?topic=242355>

Question 7

Freezing food and then using a vacuum to draw off the ice crystals is called _____.

Answer: <https://biology-forums.com/index.php?topic=243423>

Question 8

Which of the following types of radiation is nonionizing and has the shortest wavelength?

- A) ultraviolet light
- B) infrared radiation

- C) microwaves
- D) X rays
- E) gamma rays

Answer: <https://biology-forums.com/index.php?topic=242505>

Question 9

Which of the following microbes produces a protein that kills a variety of insect pests?

- A) *Pseudomonas*
- B) *Haemophilus influenzae*
- C) *Bacillus thuringiensis*
- D) *Thermus aquaticus*
- E) *Plasmodium falciparum*

Answer: <https://biology-forums.com/index.php?topic=242462>

Question 10

If the codon AAA is changed to AAG, it still codes for the amino acid lysine; this is an example of a

- A) silent mutation.
- B) nonsense mutation.
- C) frameshift mutation.
- D) gross mutation.
- E) missense mutation.

Answer: <https://biology-forums.com/index.php?topic=242403>

Question 11

Which of the following is the cause of the most common curable STD in women?

- A) human herpesvirus 2
- B) *Haemophilus ducreyi*
- C) *Trichomonas vaginalis*
- D) *Gardnerella vaginalis*
- E) *Chlamydia trachomatis*

Answer: <https://biology-forums.com/index.php?topic=243356>

Question 12

The condition known as mutualism is

- A) a relationship between two organisms where only one member benefits and the other is unharmed.
- B) a relationship between two organisms where one member harms the other.
- C) a relationship between two organisms where both members benefit.
- D) an environment that is free of microbes.
- E) a relationship in which two organisms coexist only for a short time.

Answer: <https://biology-forums.com/index.php?topic=242791>

Question 13

Which of the following stages of an infectious disease is the most severe?

- A) the incubation period
- B) the prodromal period
- C) the illness period
- D) the decline period
- E) the convalescence period

Answer: <https://biology-forums.com/index.php?topic=242766>

Question 14

Cell death and tissue destruction result from the action of _____ toxin produced by *Bordetella pertussis*.

Answer: <https://biology-forums.com/index.php?topic=243256>

Question 15

Proteins contain both acidic and basic R groups, and can therefore function as

- A) energy storage macromolecules.
- B) structural macromolecules.
- C) buffers.
- D) catalysts.

E) genetic material.

Answer: <https://biology-forums.com/index.php?topic=242148>

Question 16

The major sign of Haemophilus ducreyi infection is similar to the major sign of infection by

- A) Neisseria gonorrhoeae.
- B) Treponema pallidum.
- C) Staphylococcus aureus.
- D) Candida albicans.
- E) Chlamydia trachomatis.

Answer: <https://biology-forums.com/index.php?topic=243351>

Question 17

Which of the following have external structures containing a periplasmic space?

- A) Gram-negative bacteria
- B) Gram-positive bacteria
- C) both Gram-positive and Gram-negative bacteria
- D) archaea
- E) eukaryotes

Answer: <https://biology-forums.com/index.php?topic=242208>

Question 18

The microscope preferred for viewing living specimens is the _____ microscope.

- A) bright-field
- B) phase-contrast
- C) scanning electron
- D) scanning tunneling
- E) transmission electron

Answer: <https://biology-forums.com/index.php?topic=242220>

Question 19

Which of the following organisms would be most likely to contaminate a jar of pickles?

- A) a neutrophile
- B) a thermophile
- C) an acidophile
- D) an obligate anaerobe
- E) a mesophile

Answer: <https://biology-forums.com/index.php?topic=242340>

Question 20

MACs are

- A) the initial trigger for the classical complement system.
- B) the initial trigger for the alternative complement system.
- C) the initial trigger for the lectin complement system.
- D) the end result of both the classical and alternative complement systems.
- E) the end result of only the alternative complement system.

Answer: <https://biology-forums.com/index.php?topic=242824>