

MOCK EXAM THREE

BIOLOGY

1. A gastric ulcer of the stomach would involve
 - a) Simple ciliated epithelium
 - b) Simple columnar epithelium
 - c) Simple stratified epithelium
 - d) Simple stratified epithelium
2. Which of the following is not a property of an enzyme?
 - a) It is highly specific for the substrate
 - b) It supplies energy to make the reaction go fast
 - c) It forms an induced fit with its substrate
 - d) It is used over and over again
3. The oxygen consumed during cellular respiration is directly involved in
 - a) Glycolysis
 - b) Accepting electrons at the terminus of the electron transport chain
 - c) The citric acid cycle
 - d) Oxidation of pyruvic acid to acetylcoA
 - e) Phosphorylation of ADP
4. Secretin, gastrin and CCK in humans are all
 - a) Enzymes used to digest food
 - b) Breakdown products of digestion
 - c) Hormones that control digestive secretions
 - d) Produced in the gut by an acid PH
5. The chemoreceptor cell in the medulla oblongata sensitive to changes in blood gases and PH are stimulated directly by
 - a) Increase blood partial pressure of CO₂
 - b) Decrease PH, that is 2 from the blood
 - c) Decrease H in the cerebrospinal fluid that is derived form blood CO₂
 - d) Decrease arterial partial pressure of oxygen (PO₂)
6. Which region of the nephron contains capillaries that when damaged could cause the appearance of red blood cells and globulin in urine
 - a) Renal glomerulus
 - b) Proximal convoluted tubules
 - c) Loop of Henie
 - d) Distal tubule

7. What will be the effect of increasing sympathetic nervous system stimulation of afferent arterioles results of the kidney?
 - a) Decreased glomerular filtrate production
 - b) Increased filtrate production
 - c) No change in filtration rate
 - d) Increased kidney function
8. Which blood vessel returns lymph fluid into general circulation system
 - a) Superior vena cava
 - b) Subclavian veins
 - c) Pulmonary artery
 - d) Jugular vein
9. Which of the following statement about white blood cells is false?
 - a) They move about using amoeboid motion
 - b) They leave the vascular system in search of foreign particles
 - c) They initiate the complement protein reactions that destroy bacteria
 - d) They engulf foreign particles by the act of phagocytosis
10. A patient suffering from lack of hunger, thirst, sex desire, anger and fear, and experiencing fluctuation in body temperature may have a malfunctioning of the
 - a) Cerebrum
 - b) Cerebellum
 - c) Hypothalamus
 - d) Medulla oblongata
11. When an action potential reaches the presynaptic terminal of the sensory neuron
 - a) Calcium is released into the postsynaptic knob
 - b) Acetylcholine is released in the synaptic cleft
 - c) Acetylcholinesterase is released in the synaptic cleft
 - d) Physical contact between the sensory neuron and the relay neuron occurs
12. For a person with normal vision to see an object 100 meters away from the eye
 - a) The ciliary muscles are contracted
 - b) The suspensory ligaments are slackened
 - c) The lens becomes flattened
 - d) Light is refracted much
13. The following statement about the endocrine system is true except
 - a) Release chemicals into the bloodstream for distribution throughout the body
 - b) Release hormones that alter the metabolic activities of many different tissues and organs
 - c) Produces effects that can last only for hours
 - d) Can alter activity of cells

Which hormone would you expect to be higher than normal in the blood of a cholera patient

 - a) Antidiuretic hormone
 - b) Progesterone
 - c) Adrenaline
 - d) Thyroxine
14. Which of the following is an example of a non-specific immune response?
 - a) Acidity of urine and stomach to kill bacteria along them
 - b) Secretion of mucus and sebum to protect the respiratory tract and skin respectively
 - c) Ingestion and digestion of bacteria by neutrophils and monocytes

- d) Activation of complements (a system of proteins) by the antigen-antibody complex
15. What happens when a skeletal muscle contracts
- a) The A-bands remains the same
 - b) The I bands shorten
 - c) The sareomeres shorten
 - d) All of the above
16. This hormones stimulates the breakdown of bone and the increase of blood calcium levels
- a) Growth hormone
 - b) Oestrogen
 - c) Parthyroid hormone
 - d) Calcitonin
17. Which event does not occur during prophase in animal cell?
- a) Chromosomes condense
 - b) Spindle begins to form
 - c) Nuclear membrane starts to disappear
 - d) Chromosomes replicate
18. The transmission of a character said to be sex linked if
- a) The gene is dominant
 - b) The gene is co-dominant
 - c) The gene is carried by an autosome
 - d) The gene is carried by a heterosome
19. Which of the following is unique to cardiac muscle tissue?
- a) Is involuntary
 - b) Is non-striated
 - c) Has intercalated discs
 - d) Contains smooth muscles tissue