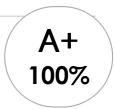
Quizlet

33 Multiple choice questions

- 1. specialised cells or groups of nerve endings that detect sensory stimuli
 - a. chemoreceptors
 - b. response
 - c. effector
 - d. CORRECT: receptors



- 2. part of the brain involved in homeostatic mechanisms such as temperature regulation and water balance in mammals
 - a. CORRECT: hypothalamus
 - b. catalysts
 - c. ectothermic
 - d. endothermic
- 3. a group of sensory receptors and associated non-sensory tissue specialised for detecting stimuli in the environment
 - a. receptors
 - b. nerves
 - c. response
 - d. CORRECT: sense organs
- 4. processes which maintain a stable internal environment in an organism, despite fluctuations in the external environment
 - a. **CORRECT:** homeostasis
 - b. hypothalamus
 - c. metabolism
 - d. receptors
- 5. any non-protein molecule needed by an enzyme for its activity
 - a. effector
 - b. **CORRECT**: cofactor
 - c. receptors
 - d. denature

- 6. the view of enzyme functioning based on the idea that an enzyme is not rigid, but alters shape slightly when it binds with a substrate

 a. receptors
 b. CORRECT: induced-fit model
 c. denature
 d. lock-and-key model
- 7. a molecule upon which an enzyme acts
 - a. set point
 - b. response
 - c. denature
 - d. **CORRECT:** substrate
- 8. bundles of sensory or motor fibres of neurons which act as messengers, transmitting impulses
 - a. anabolic
 - b. response
 - c. enzymes
 - d. CORRECT: nerves
- 9. the maximum level at which all available enzymes are being used to catalyse a chemical reaction
 - a. active site
 - b. catabolic
 - c. set point
 - d. **CORRECT:** saturation point
- 10. specialised sensory nerve receptors that receive and respond to stimuli originating from within the body
 - a. thermoreceptors
 - b. chemoreceptors
 - c. receptors
 - d. CORRECT: interoreceptors

- 11. parts of the nervous system that include the brain and spinal cord
 - a. CORRECT: central nervous system
 - b. catalysts
 - c. heat-loss centre
 - d. control centre
- 12. the part of an enzyme to which the substrate binds
 - a. stimuli
 - b. ectothermic
 - c. nerves
 - d. **CORRECT:** active site
- 13. part of the hypothalamus in the brain that triggers responses in the body to generate heat
 - a. heat-loss centre
 - b. control centre
 - c. CORRECT: heat-gain centre
 - d. saturation point
- 14. the view of enzyme functioning based on the idea that an enzyme is rigid and reciprocally shaped to fit a substrate like a key fits a lock
 - a. induced-fit model
 - b. enzymes
 - c. CORRECT: lock-and-key model
 - d. active site
- 15. an animal that depends on an external source for heat energy
 - a. receptors
 - b. endothermic
 - c. catabolic
 - d. **CORRECT:** ectothermic

16. part of the hypothalamus in the brain that triggers responses in the body to cool down a. heat-gain centre b. interoreceptors c. CORRECT: heat-loss centre d. control centre the sum of the chemical processes occurring within a living cell or organism 17. a. catabolic b. **CORRECT:** metabolism c. anabolic d. set point the change of shape of a protein, due to heat or changed pH, causing it to lose its ability to function 18. a. receptors b. **CORRECT:** denature c. response d. enzymes 19. any behaviour of a living organism that results from a stimulus a. CORRECT: response b. nerves c. receptors d. set point biological protein catalysts produced by cells, responsible for all chemical reactions in living organisms 20. a. denature b. **CORRECT:** enzymes c. stimuli d. nerves

- Test: Biology 1 Temperature Regulation | Quizlet 21. an enzyme that can work on only one particular substrate molecule, because the active site is reciprocally shaped to bind with that molecule a. ectothermic b. **CORRECT:** substrate-specific c. saturation point d. substrate an animal whose heat is generated through its own metabolic activities 22. a. **CORRECT:** endothermic b. hypothalamus c. enzymes d. ectothermic 23. process controller that detects incoming information and relays outgoing information to regulate functioning a. heat-loss centre b. heat-gain centre c. interoreceptors d. **CORRECT:** control centre 24. the organ, gland or muscle that carries out a response when activated by nerve endings as a result of a stimulus a. denature b. **CORRECT:** effector c. cofactor d. receptors
 - 25. breaking down complex molecules into simpler ones, releasing energy
 - a. metabolism
 - b. anabolic
 - c. CORRECT: catabolic
 - d. catalysts

- any one of a number of quantities (such as temperature and pH) which the body tries to keep steady at a particular value during homeostasisa. metabolism
 - b. stimuli
 - c. response
 - d. CORRECT: set point
- 27. changes in the environment detected by the sensory organs
 - a. anabolic
 - b. catabolic
 - c. denature
 - d. CORRECT: stimuli
- 28. sensory cells in an organism that detect chemical stimuli
 - a. **CORRECT:** chemoreceptors
 - b. thermoreceptors
 - c. receptors
 - d. interoreceptors
- 29. sensory cells or organs that detect heat or cold
 - a. **CORRECT:** thermoreceptors
 - b. receptors
 - c. interoreceptors
 - d. chemoreceptors
- 30. a self-regulatory biological system where a response counteracts the stimulus, reducing its effect so that a balance is maintained
 - a. nerves
 - b. CORRECT: negative feedback
 - c. ectothermic
 - d. active site

- 31. fat present in many hibernating mammals with the purpose of generating body heat
 - a. set point
 - b. cofactor
 - c. **CORRECT:** brown fat
 - d. response
- 32. substances that speed up reversible chemical reactions
 - a. anabolic
 - b. cofactor
 - c. CORRECT: catalysts
 - d. catabolic
- 33. reactions that build complex molecules from simpler ones, requiring energy input
 - a. stimuli
 - b. **CORRECT:** anabolic
 - c. catabolic
 - d. metabolism