

Midterm Review Sheet #1**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. Cells are
- the structures that contain all of the materials necessary for life.
 - found in all organisms.
 - sometimes specialized for particular functions.
 - All of the above
- _____ 2. Which of the following is a true statement about all living things?
- They cannot sense changes in their external environment.
 - They have one or more cells.
 - They do not need to use energy.
 - They reproduce asexually.
- _____ 3. Organisms must have food because
- food is a source of energy.
 - food supplies cells with oxygen.
 - organisms never make their own food.
 - All of the above
- _____ 4. A change in an organism's environment that affects the organism's activities is a
- response.
 - stimulus.
 - metabolism.
 - producer.
- _____ 5. When a duck dives under water, its inner eyelids automatically raise to cover the duck's eyes. In this case, water acts as
- homeostasis.
 - a stimulus.
 - a reaction.
 - an enzyme.
- _____ 6. Maintaining a body temperature of 37°C and a stable amount of sugar in your blood are both examples of
- homeostasis.
 - metabolism.
 - photosynthesis.
 - respiration.
- _____ 7. Which of the following is a stimulus?
- sound
 - darkness
 - gravity
 - All of the above
- _____ 8. The pupils of your eyes respond to which of the following stimuli?
- sound
 - light
 - scent
 - touch
- _____ 9. Which of the following organisms reproduces asexually?
- hydras
 - rabbits
 - bears
 - frogs
- _____ 10. Organisms use energy to
- move materials into and out of cells.
 - build cells.
 - make or break down food.
 - All of the above

- _____ 11. Which statement best describes what happens to a single-celled organism when it is eaten?
- It reproduces sexually.
 - Its energy is transferred to another organism.
 - It reproduces asexually.
 - It maintains homeostasis.
- _____ 12. Most plants are
- producers.
 - consumers.
 - decomposers.
 - Both (b) and (c)
- _____ 13. Which statement best describes how producers get the food they need to survive?
- They break down the nutrients in dead organisms or animal wastes.
 - They use energy from the sun to make food from water and carbon dioxide.
 - They obtain energy and food from the chemicals in their environment.
 - Either (b) or (c)
- _____ 14. Which statement best describes how consumers get the food they need to survive?
- They use energy from the sun to make food from water and carbon dioxide.
 - They obtain energy and food from the chemicals in their environment.
 - They eat other organisms.
 - They break down the nutrients in dead organisms or animal wastes.
- _____ 15. Which statement best describes how decomposers get the food they need to survive?
- They eat other organisms.
 - They obtain energy and food from the chemicals in their environment.
 - They use energy from the sun to make food from water and carbon dioxide.
 - They break down the nutrients in dead organisms or animal wastes.
- _____ 16. Humans obtain water
- from the fluids they drink.
 - from the food they eat.
 - by osmosis.
 - Both (a) and (b)
- _____ 17. The cells of which of the following organisms are made up of approximately 70 percent water?
- a camel
 - a cactus
 - a dragonfly
 - all of the above
- _____ 18. Green plants, algae, and some bacteria need _____ to produce food by photosynthesis.
- sunlight
 - carbon dioxide
 - water
 - All of the above
- _____ 19. Which statement does NOT correctly describe how organisms obtain their living space?
- Organisms often compete with each other for living space.
 - Some organisms require larger amounts of living space than other organisms.
 - All organisms require equal amounts of living space.
 - Organisms will try to keep other organisms away.
- _____ 20. Which statement does NOT correctly describe lipids?
- Fats and oils are lipids.
 - An organism obtains energy from lipids after it has used up most of its carbohydrates.
 - Fats and oils are solid at room temperature.
 - Lipids do not mix with water.