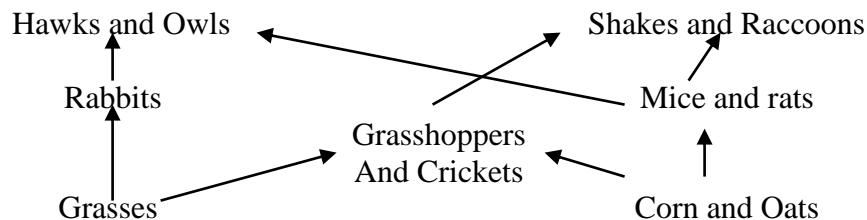


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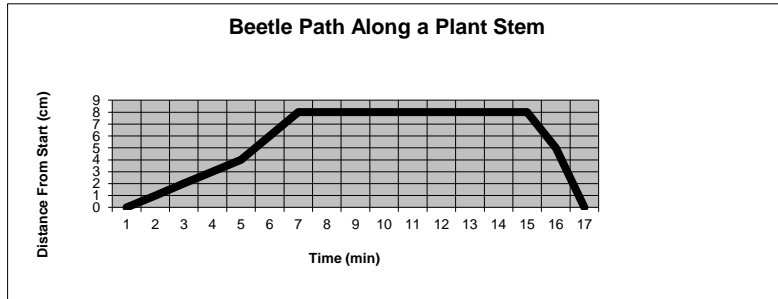
### MAP Prep – Biology

1. Study the diagram below carefully, if the corn and oats were completely removed, which of the following would be **most** affected?
- Mice & rats
  - Hawks and Owls
  - Snakes and raccoons
  - Grasshoppers and crickets



2. A rabbit population has increased noticeably in the past 10 years. Which of the following is a reasonable hypothesis for the population growth?
- Competition for food has increased among rabbits
  - The rabbit's main predator has been eliminated by human development.
  - Abnormal weather conditions have decreased water levels of the local ponds.
  - An organism that relies on similar food sources has migrated into the area.
3. Which of the following correctly lists the organizational hierarchy of organisms from simplest to most complex?
- Cells, organs, tissues, organ systems, organisms.
  - Cells, tissues, organs, organ systems, organisms.
  - Tissues, cells, organs, organ systems, organisms.
  - Tissues, organs, cells, organ systems, organisms.
4. Oxygen and sugar are products of . . .
- Cell Division
  - Digestion
  - Photosynthesis
  - Respiration
5. Which of the following symbiotic relationships is considered parasitic?
- Ticks feeding on a dog
  - Bees transporting pollen from flowers.
  - Pilot fish swimming under sharks.
  - Birds eating the insects from the back of a hippopotamus.
6. Which Kingdom contains organisms that are multicellular, have no chlorophyll, and absorb nutrients from decaying tissue?
- Fungi
  - Plantae
  - Protista
  - Animalia
7. In 1995, a private bus company in Washington DC introduced a program to run all its tour buses with fuel obtained from soybeans. These buses are powered by. . .
- Nuclear Fuel
  - Biogas
  - Coal Gas
  - Diesel Fuel

8. Study the graph of a beetle's movement along a plant stem below. During what time, was the beetle not moving?
- From 0 to 4 minutes
  - From 7 to 14 minutes
  - From 4 to 7 minutes
  - From 14 to 16 minutes



9. Single celled organisms can reproduce and create cells exactly like themselves without combining genes from two different parent cells. When they do this, they use a type of . . .
- Asexual reproduction
  - Gamete Formation
  - Natural Selection
  - Sexual Reproduction
10. Which two body systems work together to transport oxygen to the cells?
- Skeletal and Respiratory
  - Digestive and Respiratory
  - Circulatory and Respiratory
  - Reproductive and Respiratory
11. The cell structure that makes a plant cell more rigid than an animal cell is the
- Cell Membrane
  - Cytoplasm
  - Cell Wall
  - Ribosomes
12. Which statement about photosynthesis and respiration is true?
- Photosynthesis stores energy and respiration releases energy.
  - Respiration stores energy and photosynthesis releases energy.
  - Photosynthesis and respiration are the same process.
  - Photosynthesis and respiration do not have anything to do with energy.
13. Which is not a major controversial issue associated with nuclear energy?
- The disposal of nuclear waste products.
  - The health hazard in areas surrounding nuclear plants.
  - The thermal pollution of water bodies used for cooling.
  - The unemployment due to conversion to nuclear power.
14. If the number of trees significantly decreases, the atmosphere's level of which gas might significantly increase?
- Nitrogen
  - Carbon Dioxide
  - Oxygen
  - Hydrogen
15. A plant scientist is developing a new fertilizer. She designs an experiment to test her fertilizer against one already on the market. Which of the following should the scientist do with light during this experiment?
- Apply the same amount of light to all the plants.
  - Apply only green light to all the plants.
  - Flash the lights to simulate a partly cloudy day.
  - Keep the plants in darkness.