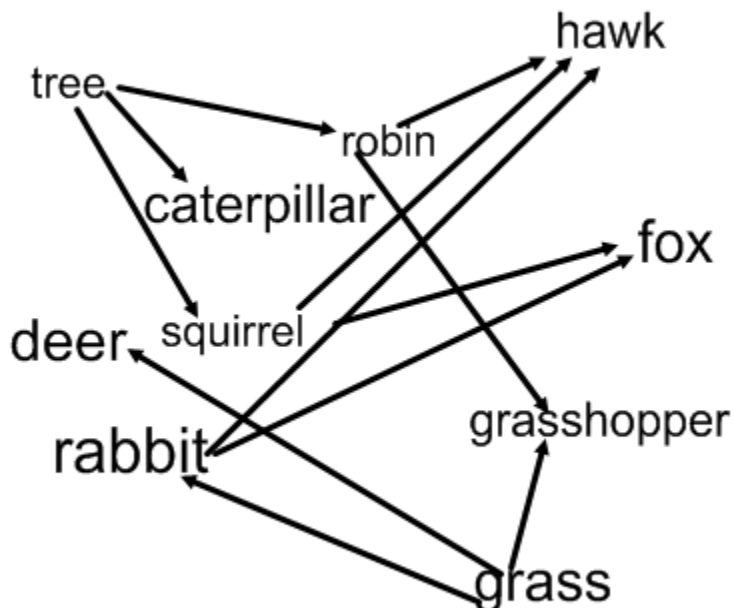


Science 10 Ecosystem Exam Review
Answers

1. For each of the following descriptions about animals state if it is
- | | | |
|---------------|---------------|---------------|
| a. Endangered | c. Extirpated | e. Vulnerable |
| b. Extinct | d. Threatened | |

- i. Dinosaurs are no longer found anywhere (B)
 ii. The grey fox is at risk because of low or declining numbers (E)
 iii. The grizzly bear is no longer found in Manitoba and Saskatchewan, but is still found in Alberta and BC (C)
 iv. The piping plover is likely to become endangered if factors that ensure its survival are not improved (D)
 v. The whooping crane is close to extinction in all parts of Canada or a significantly large location (A)

2. Does this diagram below represent a food web, food chain or food pyramid? **Food Web**



b. Name one animal that fits each of these categories

- i. producer – **tree or grass**
 ii. Secondary consumer **grasshopper, fox, robin, hawk**
 iii. Herbivore – **caterpillar, robin, squirrel, grasshopper, rabbit, deer**
 iv. Primary consumer – **rabbit, grasshopper, deer, caterpillar, squirrel, robin**

c. If the tree was removed from this diagram what other organisms would be effected and in what ways? **The robin, caterpillar and squirrel would decrease in numbers and have to find another food source. The organisms that eat these organisms would also experience a decline because their food source has been depleted.**

d. If there were an increase in the number of foxes, explain how would it affect the other organisms? **The other organisms would benefit from more food source and would also increase.**

3. For each of the following
- Label the type of pyramid
 - (Pyramid of numbers)**
 - (Pyramid of Energy)**
 - (Pyramid of Biomass)**

For each of the following fill in the blanks provided:

- | | |
|---|---------------------------------|
| 1. ecosystem | 21. ecology |
| 2. food chain | 22. abiotic |
| 3. herbivores | 23. sunlight/water |
| 4. carnivores | 24. biotic |
| 5. omnivores | 25. animals/plants |
| 6. detritus | 26. population |
| 7. decomposer | 27. community |
| 8. increase | 28. ecotone |
| 9. decrease | 29. trophic level |
| 10. grass (answers will vary) | 30. autotroph |
| 11. deer (answers will vary) | 31. heterotroph |
| 12. habitat | 32. food web |
| 13. skin/ecosystems | 33. primary consumer |
| 14. extinct | 34. secondary consumer |
| 15. endangered | 35. numbers, energy and biomass |
| 16. extirpated | 36. ecological niche |
| 17. threatened | 37. exotic species |
| 18. vulnerable | |
| 19. biodiversity | |
| 20. passenger pigeon (answers will vary) | |