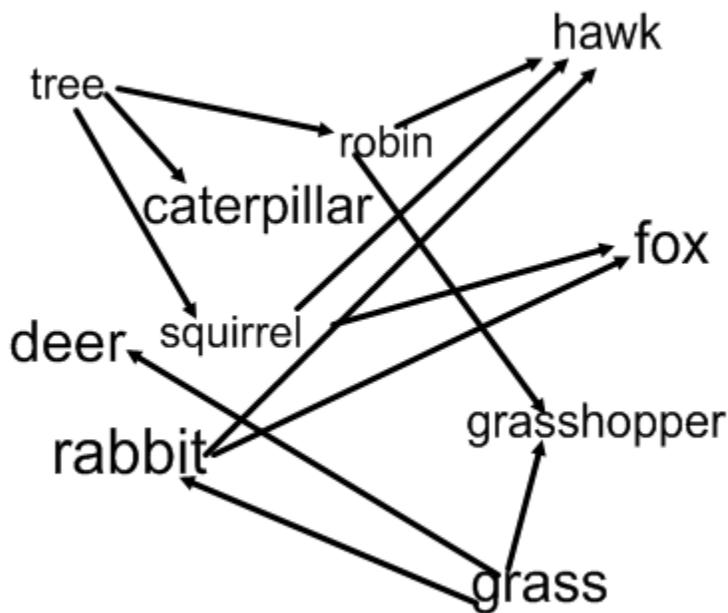


Science 10 Ecosystem Exam Review
Answers

1. For each of the following descriptions about animals state if it is
 - a. Endangered
 - b. Extinct
 - c. Extirpated
 - d. Threatened
 - e. Vulnerable
 - 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 descriptions describe if the relationship is mutualism (M), commensalism(C) or Parasitism (P).
 - a. Mutualism
 - b. Parasitism
 - c. Parasitism
 - d. Commensalism
 - e. mutualism

For each of the following fill in the blanks provided:

- | | |
|---|---------------------------------|
| 1. ecosystem | 23. sunlight/water |
| 2. food chain | 24. biotic |
| 3. herbivores | 25. animals/plants |
| 4. carnivores | 26. population |
| 5. omnivores | 27. community |
| 6. detritus | 28. ecotone |
| 7. decomposer | 29. trophic level |
| 8. increase | 30. autotroph |
| 9. decrease | 31. heterotroph |
| 10. grass (answers will vary) | 32. food web |
| 11. deer (answers will vary) | 33. primary consumer |
| 12. habitat | 34. secondary consumer |
| 13. skin/ecosystems | 35. numbers, energy and biomass |
| 14. extinct | 36. ecological niche |
| 15. endangered | 37. exotic species |
| 16. extirpated | 38. Symbiosis |
| 17. threatened | 39. Mutualistic |
| 18. vulnerable | 40. Commensalistic |
| 19. biodiversity | 41. Parasitism |
| 20. passenger pigeon (answers will vary) | 42. Parasitic, host |
| 21. ecology | 43. Parasitic, parasite |
| 22. abiotic | |