

Answer Key
unity of life midterm practice

- 1. D
- 2. B
- 3. B
- 4. A
- 5. C
- 6. B
- 7. B
- 8. A
- 9. C
- 10. C
- 11. B
- 12. A
- 13. B
- 14. C

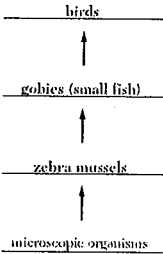
Flah	Scientific Name	Subgroup	Feeds On	Spill Over
A	C. vulgatus	Proteobacteria	carbs	decaying lin. plant mat.
B	C. jejuni	Proteobacteria	carbs	same
C	C. coli	Proteobacteria	carbs	same

Answer Key
ecology midterm practice

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|-----|----------|-----|----------|
| 1. | <u>D</u> | 37. | <u>D</u> |
| 2. | <u>B</u> | 38. | <u>D</u> |
| 3. | <u>D</u> | 39. | <u>B</u> |
| 4. | <u>B</u> | | |
| 5. | <u>B</u> | | |
| 6. | <u>A</u> | | |
| 7. | <u>A</u> | | |
| 8. | <u>C</u> | | |
| 9. | <u>B</u> | | |
| 10. | <u>B</u> | | |
| 11. | <u>C</u> | | |
| 12. | <u>A</u> | | |
| 13. | <u>B</u> | | |
| 14. | <u>C</u> | | |
| 15. | <u>A</u> | | |
| 16. | <u>D</u> | | |
| 17. | <u>C</u> | | |
| 18. | <u>D</u> | | |
| 19. | <u>B</u> | | |
| 20. | <u>B</u> | | |
| 21. | <u>B</u> | | |
| 22. | <u>C</u> | | |
| 23. | <u>C</u> | | |
| 24. | <u>D</u> | | |
| 25. | <u>D</u> | | |
| 26. | <u>C</u> | | |
| 27. | <u>A</u> | | |
| 28. | <u>C</u> | | |
| 29. | <u>D</u> | | |
| 30. | <u>C</u> | | |
| 31. | <u>B</u> | | |
| 32. | <u>A</u> | | |
| 33. | <u>D</u> | | |
| 34. | <u>A</u> | | |
| 35. | <u>B</u> | | |
| 36. | <u>C</u> | | |
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Answer Key human impact

1. B
2. B
3. A
4. A
5. D
6. D
7. B
8. A
9. B
10. A
11. C
12. B
13. C
14. D
15. C
16. A
17. – Animals that eat the birds would not have enough food. – The decomposing birds could spread disease. – The gobie population would increase. – decreases biodiversity, – disrupts food webs
18. – They outcompete native species. – They harm/negatively affect native species. – They were introduced to the Great Lakes by humans. – They interfere with the ability of other organisms to function in the environment. – They are not native to the Great Lakes.

19. 

– The concentration of the toxin increases in each level of the food chain until it is high enough to kill top-level predators.-- The birds eat gobies that have accumulated toxins.-- The food chain increases the concentration of naturally occurring toxins by passing dangerous levels on to top-level predators.
20. – The concentration of the toxin increases in each level of the food chain until it is high enough to kill top-level predators.-- The birds eat gobies that have accumulated toxins.-- The food chain increases the concentration of naturally occurring toxins by passing dangerous levels on to top-level predators.
21. – solar energy – energy from the Sun is free. – wind energy - no air pollution. – geothermal – no carbon dioxide released. – hydroelectricity – Energy is generated locally.

22. – The decision involves balancing the economic gains and the possible environmental damage. – Fracking will provide people with more natural gas but might damage the environment. – There might be more jobs, but there is a possibility for increased water pollution.
23. – The predator might feed on beneficial organisms. – might outcompete other species of predators, – might become a pest, – They might overpopulate and wipe out prey species. – might bring in a disease, – could alter the existing ecosystem
24. – use reusable water bottles not made with BPA, – pass legislation that outlaws the manufacturing of products with BPA, – ensure that water bottles are not littered in the environment, – recycle disposable water bottles, – use metal/glass containers, – control the disposal of industrial waste

25. – establishing endangered species lists and laws that protect endangered species and their habitats – setting up laws that regulate the release of pollutants – enacting hunting or fishing regulations that protect endangered species – recycling of metals and plastics – replanting trees – stopping/slowing deforestation – breeding programs – regulating what chemicals can be used on farms
26. – The less biodiversity there is in an ecosystem, the less stable the ecosystem will be. – A loss of biodiversity would make it harder for the ecosystem to maintain stability. – It would reduce resources/food/shelter that are used by the organisms in the ecosystem. – A species might become extinct.

Answer Key
biochemistry midterm practice

1. **B**
 2. **C**
 3. **A**
 4. **D**
 5. **B**
 6. **D**
 7. **A**
 8. **C**
 9. **C**
 10. **C**
 11. **A**
 12. **D**
 13. **A**
 14. **B**
 15. **A**
 16. **A**
 17. **D**
 18. **C**
 19. **C**
-

Answer Key
cells midterm practice

1. **A**
 2. **C**
 3. **B**
 4. **B**
 5. **B**
 6. **B**
 7. **A**
 8. **B**
 9. **D**
 10. **A**
 11. **A**
 12. **D**
 13. **A**
 14. **B**
 15. **C**
 16. **B**
 17. **B**
 18. **C**
 19. **B**
 20. **C**
 21. **C**
 22. water *or* glucose
 23. **A**
 24. **B**
 25. **A**
 26. **A**
 27. **A**
-

Answer Key
photosynthesis and respiration *(energy)*

1. B
 2. D
 3. A
 4. C
 5. D
 6. A
 7. B
 8. D
 9. D
 10. A
 11. C
 12. A
 13. A
 14. D
 15. A
 16. (essay)
 17. C
 18. B
 19. A
 20. B
 21. A
 22.
 - regulate the movement of gases into and out of the leaf
 - control the size of the leaf openings
 - regulate water loss
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Answer Key
photosynthesis and respiration (*energy*)

16. Identify the organelle where the process occurs:

Photosynthesis: — chloroplast

Respiration: — mitochondrion

•Acceptable responses include, but are not limited to:

Photosynthesis: — CO_2 and H_2O

Respiration: — organic molecules and O_2 — sugar and oxygen

•Acceptable responses include, but are not limited to:

Photosynthesis: — glucose

Respiration: — ATP

•Acceptable responses include, but are not limited to:

Glucose: — to produce ATP — to produce starch

ATP: — to provide energy for metabolism

•Acceptable responses include, but are not limited to:

Photosynthesis: — The gas is used for respiration. — provides O_2 for respiration

Respiration: — provides CO_2 for photosynthesis — The gas is used for photosynthesis.

