**Midterm Review Answer Key**

**Packet #1**

Pg12 Crossword Pg 6

Across Down 13. Dependent; Independent

1. Density 2. Thermometer 14. Dependent; Independent

3. second 3. Si 8.D

6. mm 5. Cm 9.E

8. derived units 5. Dm 10.B

9. cubic meters 7. Meter stick 11.C

11. temperature 10. Celsius 12. A

14, standard 12. Absolute 21. Experimental Results

15. Liter 13. Gram 22. Scientific Journals

19. meter 16. Kelvin 23. Verify

20. volume 17. Deci 24. Experiment

21. centi 18. Length 25. Hypothesis

22. balance 25. mL 26. Valid

23. pie 27. Theory

24. time 28. Law

26. graph

Soil Review

1.D 7.A 12.D 16. D

2.B 8. F 13.A 17. D

3.C 9. C 14. D 18. D

4.A 10.E 15. C

5.B 11.G

6.D

19. Parent or Bed Rock

20. Soil

21. The rock which was weathered to create sediment or soil

22. Residual

23. Does not match the rock underneath it.

24. The carrying away of rock or soil

25. They break up the soil and remove vegetation making soil more likely to wash away

26. The soil there is thin/ limited to begin with

**Midterm Review Answer Key**

**Packet #2**

Pg 122 Testing Concepts

1. C 2. A 3. B 4.L 5. E 6. G 7. I 8. H 9. F 10. D 11. D 12. B 13. C 14. A

15. B 16. A 17. B 18. B 19. B 20. D 21. D 22. C 23. D 24. C 25. C

Applying Concepts

1. Biotic 5. Predator/ Prey
2. Abiotic 6. Parasite
3. Abiotic 7. Predator/Prey
4. Biotic 8. Mutualistic

A Salt Marsh Food Web

Part A.

1. Land and water plants
2. Insect, vole, snail, smelt, sandpiper, crayfish
3. Heron, vole, hawk, blackbird, rail, sandpiper
4. Sandpiper and vole
5. Hawk and Owl
6. They don’t consume anything but they provide the nutrients for everything in the ecosystem

Part B.

1. B 2. D 3. C 4. A

Understanding Concepts

1. Lava cools
2. Ash settles on lava rocks
3. Wind carries spores
4. Pioneer species break down rocks
5. Soil Forms
6. Large plants grow
7. Animals arrive

Biotic Relationships

1. Symbiosis 22. Matter… Energy
2. Mutualism 23. Solar… Chemical
3. Parasite 24.Thermodynamic
4. Parasite & Host 25. Organisms… Food
5. Commensalism 26. Usable… Decreases
6. Commensalism 27. Pyramids
7. H 28. Trophic Level… Links
8. G 29.tertiary level consumer
9. F 30. 10
10. D 31. Fifth-level consumer
11. A 32. T
12. I 33.F
13. B 34.T
14. E 35.F
15. C 36.T
16. Producer 37.T
17. Second level
18. Rabbit/ Herbivore
19. Secondary consumer

Basic Ecology Crossword

Across Down.

5. Biotic

 6. Producer 1. Abiotic

8. Competition 2. Trophic level

10. Climax 3. Fungi

11. Succession 4. Prey

12. Community 7. Biosphere

13. Heterotroph 9. Resource

17. Adaptation 10. Consumer

21. Primary-community 13. Herbivore

24. Ecology 14. Carrying

25. Decomposer 15.population

26. Pioneer 16. Symbiosis

 18. Autotroph

 19. Population

 20. Ecosystem 21. Predators

 22. Niche

 23. Bacteria

**Midterm Review Answer Key**

**Packet #3**

**Biomes Water cycle**

1. Tropical Rain Forest 1. Transpiration
2. Temperate Deciduous Forest 2. Run-off
3. Taiga 3. Evaporation
4. Tundra 4. Precipitation (condensation)
5. Grassland 5. Percolation
6. Savannah 6. Absorption
7. Chapparal
8. Desert

3. b

4. c

5. f

6. e

7.d

8. a

9. Desert

 10. Grassland

 11. TDF

12.TDF

13. TRF

14. Taiga

15. Grassland

16. TDF

17. Tundra

18. Desert

1. cold, dry area; permafrost; almost no vegetation

2. cool, northern forest of evergreen (coniferous) trees

3. forest with 4 seasons; adequate rain; trees loose leaves

4. hot, wet, region near equator; high biodiversity; vines and tall broad leaved plants

5. dry area; limited vegetation; no trees; low biodiversity

6. changing temperature and precipitation; good soil; grazing animals mostly grasses.

The Carbon Cycle

1. Respiration
2. Photosynthesis
3. Compaction ( into fossil fuels)
4. Combustion
5. Erosion

The Carbon Cycle

1. Plants
2. Pants and animals, atmosphere, and rocks
3. Animals break down food and release CO2; animals decompose + waste decomposes releasing C02
4. Combustion releases C02 into atmosphere
5. Respiration releases CO2 and photosynthesis removes CO2 from atmosphere

Chapter 50: Interpreting Diagrams

1. Bacteria
2. Legumes
3. Ammonia
4. Nitrogen fixation
5. Herbivores
6. Waste
7. Soil
8. Ammonification
9. Nitrification
10. Denitrification
11. Assimilation

Diagram

1. Nitrogen Fixation
2. Ammonification
3. Nitrification
4. Denitrificaiton
5. Assimilation

Chapter 50 Intro to Ecology

1. Animals, decomposing bacteria, mining, and erosion.
2. Erosion or mining
3. Interconnecting
4. Plants
5. Plants
6. Soil
7. Oceans
8. Sediments
9. Crust

**Midterm Review Answer Key**

Packet #4

Page 17

1. exponential, unlimited resources allows the population to grow exponentially

2. B 3. A

4. eventually something will prevent the population from growing

5. carrying capacity 6. Under 7. Exceed 8. Grows 9. Above 10. Deaths 11. Births 12. Below

13. C 14. D 15. C 16. D

17. What are density independent factors?

18. What are density dependent factors?

19. What is a predator/prey relationship?

20. What is a limiting factor?

Populations

1. C 12. T 21. T 25. Carrying capacity

2. A 14. T 22. Population 26. K-strategists

8. C 15. T 23. Clumped distribution 27. Non-random mating

4. B 20. T 24. Model 28. Gene

 30. Genetic drift

Testing concepts

11. T 22. T

13. F 23. T

14. T 24. T

15. T 25. T

16. F

34. Size, genetics, migration, reproductive strategies, dispersal, population density

35.