

Answer Key

1. Crotalus (2 points)
2. Sistrurus (2 points)
3. They both are rattlesnakes or they both belong to the same subfamily, viperinae (3 points)
4. A function which allows the skull to expand and move separate from other sides in snakes (3 points)
5. Emydidae, Deirochelys, Chicken Turtle (2 points)
6. 78 to 152 days (2 points)
7. Diapause is a period of suspended development in an insect, other invertebrate, or mammal embryo, especially during unfavorable environmental conditions. (3 points)
8. Gastrula (2 points)
9. Uma, fringe toed lizard (2 points)
10. Fringes on its toes (2 points)
11. The fringes aid with traction and speed, and help the lizard avoid sinking into loose, sandy dunes. (2 points)

12.

1. Possess upper jaws which overlap the lower ones, preventing the intrusion of sand particles
2. Nostrils that can be closed at will, to prevent intrusion of sand
3. Flaps also close against the ear openings when moving through sand, to prevent the intrusion of sand
4. The upper and lower eyelids have interlocking scales that prevent sand from getting into the eyes
5. They can adjust their color, this allows them to absorb more heat when it is cold and absorb less heat when it is hot
6. They burrow which allows them to escape the heat

Answer must include any 4 of the above adaptations to receive points (5 points)

13. The fringe-toed lizard is an insectivorous predator, dining mostly upon a diet comprised by a variety of insects and terrestrial invertebrates. On occasion, the lizard may be seen eating desert plant matter, such as seeds, flower buds, and leaves. (2 points) **Must mention insects to receive points**

14. Carapace (1 point)
15. Nuchal Scute (1 point)
16. Marginal scutes (1 point)
17. Central Scutes (1 point)
18. Costal Scutes (1 point)
19. Supracaudal Scutes (1 point)
20. External nares (1 point)
21. Nictitating membrane (1 point)
22. Tympanic membrane (1 point)
23. Digits (1 point)
24. Antebrachium (1 point)
25. Brachium (1 point)

26. Dorsolateral dermal plica (1 point)
27. Crus (1 point)
28. Pes (1 point)
29. Ranidae (2 point)
30. Mainly insects, and invertebrates (2 points)
31. A,B,D (1 point)
32. Coloration is mostly greens and browns above, with darker and yellowish spots (2 points)
33. The frog popsicle is a method some frogs use to survive the winter, they survive the cold of winter by freezing solid and remaining that way until they thaw out in spring. (3 points) **Answer must include that it is a method to survive winter, and that they freeze to receive points**
34. Lacertidae, Wall Lizard (2 points)
35. When attacked (2 points)
36. To drop its tail this lizard squeezes the ring of strong muscles which surround the weak points in the tail, so tightly that the tail falls off. (3 points)
37. Autotomy (2 points)
38. Their common habit of basking on walls (2 points)
39. Plethodontidae, Aneides (2 points)
40. Costal grooves (2 points)
41. 14-15 (2 points)
42. True (1 point)
43. Spring (2 points)
44. December- March (2 points)
45. It is mostly active at night during this time (2 points)
46. Pulmonary and Systemic (2 points)
47. Pulmonary respiration and cutaneous respiration (2 points)
48. Animals which are only able to tolerate a small change in temperature (3 points)
49. A form of development in which the embryo receives no nutrition other than the yolk contained within its egg. (3 points)
50. Polyandry (2 points)
51. C (1 point)
52. D (1 point)
53. B (1 point)
54. B (1 point)
55. A (1 point)
56. B (1 point)
57. C (1 point)
58. A (1 point)
59. D (1 point)
60. True (1 point)
61. True (1 point)
62. False (1 point)
63. True (1 point)
64. False (1 point)

65. True (1 point)
66. True (1 point)
67. False (1 point)
68. False (1 point)
69. False (1 point)
70. C (1 point)
71. A (1 point)
72. B (1 point)
73. D (1 point)
74. E (1 point)
75. C (1 point)
76. Crocodylidae (2 points)
77. Alligatoridae (2 points)
78. Rivers and lakes with little or no canopy cover (If only rivers or only lakes are mentioned, receive full credit as long as amount of cover is mentioned, amount of cover must be mentioned to receive full credit.) (2 points)
79. Diapsid (1 point)
80. Genus: Actinemys, Common Name: Western Pond Turtle (2 points) Answer must provide both genus and common name to receive points
81. Underwater (2 points)
82. 13 to 17 weeks (2 points) If answer contains any number between 13-17, give full credit
83. 4-8 years (2 points) If answer contains any number between 4-8, give full credit
84. True (1 point)
85. Genus: Coluber, Common Name: Racer (2 points) Answer must provide both genus and common name to receive points
86. November to March (3 points)
87. Must mention at least 2 of the following to receive full credit. Diet includes small mammals, birds, reptiles, amphibians, large insects, and sometimes lizards. (2 points)
88. That they are a fast moving animal (2 points)
89. False (1 point)
90. Family: Bufonidae, Common Name: True Toads (2 points) Answer must provide both family and common name to receive points
91. Australia and Antarctica (2 points) Answer must provide both continents to receive points
92. Bidder's Organ (3 points)
93. Parotid Glands, and they excrete the poison when stressed. (3 points) Both parts must be answered to receive points
94. In streams (2 points)
95. Hip bones (2 points)