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CHAPTER			
	est prep pretest Fishes and Amphibian	c	
	-		
	e provided, write the letter of the term stes each statement or best answers ea		
· · · · · · · · · · · · · · · · · · ·	 The major respiratory organ of a a. swim bladder. b. lung. 	fish is the c. gill. d. operculum.	
-1-6			
	 Lampreys and hagfishes are the o a. bony fishes. b. Chondrichthyes. 	nly remaining c. Osteichthyes. d. agnathans.	
	 4. Because the bodies of freshwater surrounding water, they a. excrete concentrated urine. b. need to take in salts from the e c. tend to take in water through o d. Both (b) and (c) 	nvironment.	
	 5. Members of the order Apoda do N a. use cutaneous respiration. b. lay eggs. 	IOT c. have legs. d. bear live young.	
	 6. Which of the following characteri a. gills b. vertebral column 	stics is NOT shared by all fishes? c. single-loop circulation d. scales	
	 7. In order to rise in the water, bony with gas from a. their gills. b. their bloodstream. 	fishes fill their swim bladder c. the surrounding water. d. their lungs.	
	 8. Fish "swallow" water to a. force it from the mouth and ov b. steady themselves in the water c. feed. d. All of the above 		
1	no per en ser	"TOUR	
	10. Jawless fishes havea. unpaired fins.b. scales.	c. operculums. d. swim bladders.	

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- a. divided atrium and one ventricle.
- b. divided ventricle and one atrium.
- c. septum.
- d. Both (a) and (c)
- 12. Frogs and toads are members of the order
 - a. Anura.c. Urodela.b. Apoda.d. Caecilia.
- ____ 13. Because of their tympanic membrane, leopard frogs can hear well in
 - a. both water and air.
- c. air but not in water.
- b. water but not in air. d. None of the above

Questions 14 and 15 refer to the figure at right, which shows the structure of a fish.

- 14. The structure labeled A is called the
 a. dorsal fin.
 b. brain.
 c. operculum.
 d. lateral line.
 15. The structure labeled B
- _____ 15. The structure labeled B is called the a. pectoral fin.
 - b. operculum.



c. pelvic fin.d. jaw.

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Circle T if the statement is true or F if it is false.

		61 (F)		
	Т	F	17.	In fish, blood collects in the sinus venosus and passes into the atrium.
	Т	F	18.	Marine fish excrete concentrated urine to prevent excessive water loss.
	Т	F	19.	The only remaining agnathans are bony fishes.
	Т	F	20.	Skates and rays have streamlined bodies.
	Т	F	21.	All members of the order Urodela retain gills as adults.
	т	F	22.	Fishes have a double-loop circulation system.
	Т	F	23.	Most bony fishes have a hard plate, called the operculum, that covers the gills on each side of the head.
1		5 000	est.	
12	T	F	25.	Spawning is a method of external fertilization.
	T T	F F		Spawning is a method of external fertilization. The gills of bony fishes are more efficient than amphibians' lungs.
1	-		26.	•
and the second se	T	F	26. 27.	The gills of bony fishes are more efficient than amphibians' lungs.
	T T	F F	26. 27. 28.	The gills of bony fishes are more efficient than amphibians' lungs. All modern amphibians use only their lungs for respiration. All frogs, toads, salamanders, and caecilians have legs that enable

,	Cc in	omplete each statement by writing the correct term or phrase the space provided.
	5	
	31	. By moving certain, and the, bony fishes can move water over their gills while remaining stationary.
	32	. In amphibians, oxygen-rich blood and oxygen-poor blood mix in the
		because it lacks a(n)
	33	. The only jawless fishes that survive today are the and
	-	the
	11 Jr	
	35	carry oxygen-rich blood from
		an amphibian's to its heart.
÷	36	About 95 percent of all living fish species are
	37	grow throughout a fish's life and can be used to
		estimate the of the fish.
	38	All fishes have a(n) that surrounds the spinal cord.
	39	In amphibians, one circulatory loop travels to the, and
Ţ	ś	another circulatory loop travels to the
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n. Alf ri	Washing and	
Winsto	1	
tehart and	42	Individual in the kidneys regulate salt and water balance in an animal's body.
lolt. Rír	43.	Besides breathing with their lungs, frogs, salamanders, and caecilians also
o by F	î	engage in respiration.
ovriaht	44	Salamanders are members of the order
Co	45.	Urine, undigested food, egg cells, and sperm cells all exit the body of the
		leopard frog through the opening.

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	d each question, and write your answer in the space provided.		
46.	What is countercurrent flow, and why is it important to a fish?		1
	2.	•	
		P	
47.	Describe the role of the tympanic membrane in a frog's sense of balance.		
		-	
		-	
		-	
		-	
48.	How do lampreys and hagfishes feed?		
		-	
		_	
		- ,	
49.	What information does a bony fish get from its lateral line system?		
		_	
		eserved.	
50	Which group of amphibians does not have the important adaptation of terrestrial	ights r	
50.	vertebrates—legs? Explain.	n. All c	
		l Winsto	
		rt and	
		 Rineha	
51	. What enables a leopard frog to keep its skin moist? Why is this important?	y Holt,	<i>3</i> 2
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35) TEST PREP PRETEST					
In the space best comple	provided, write the le as each statement or	tter of the term or pl best answers each o	urase that juestion.		
	1. Tuataras are mem	-			
	a. Chelonia. b. Squamata.		. Rhynchocephalia. . Crocodilia.		
	2. In the raising of the following vert		s most closely resemble which of		
	a. turtles b. lizards	=	. snakes . birds		
	3. All reptiles EXCE				
	a. a partially divided b. alveoli.		overlapping scales. relatively small brains.		
	4. Which of the follo				
	 a. Vertebrae are fused to the inside of the carapace. b. The carapace provides support for muscle attachment. c. The carapace is always dome shaped. d. The shell is made of fused plates of bone. 				
	5. During the Cretac	eous period, snakes	probably evolved from		
	a. turtles. b. lizards.	-	. dinosaurs. . alligators.		
	6. The heat-sensing animal in total data	organ used by timber rkness is called a	rattlesnakes to locate a motionless		
	a. venom gland. b. fang.		. pit organ. . rattle.		
	7. Which of the follo other reptiles?	wing characteristics	distinguishes crocodilians from		
	c. Crocodilians ha	e ectothermic. are for their young af ave dry, watertight sl ave amniotic eggs.			
		iency in birds is impi	roved by the presence of		
	 a. air sacs. b. one-way air flo c. a completely di d. All of the above 				
	well adapted for a. seizing prey.	wo forward-facing to bing, and holding foo	es and two backward-facing toes is d.		
	d. wading in wate	er.			

- 10. The problem of reptile sperm and eggs drying out on land is solved by
 - a. internal fertilization.
- c. overlapping scales.
- d. Both (a) and (b)
- _____ 11. Compared with amphibians, the legs of reptiles are positioned
 - a. closer to the head.

b. an amniotic egg.

- b. farther from the head.
- c. farther apart.
- d. more vertically under the body.

12. Unlike most reptiles, members of the order Rhynchocephalia are

- a. scaleless.
- **b.** aquatic.
- c. most active at low temperatures.
- d. endothermic.
- **13.** The feathers of birds are important for
 - a. providing lift for flight.
 - b. conserving heat.
 - c. insulation.
 - d. All of the above

14. Which of the following is NOT an adaptation for flight?

- a. oil gland
- c. thin and hollow bones b. keel for muscle attachment d. fused collarbones
- 15. The second chamber of the stomach of a bald eagle is known as the
 - a. crop. b. gizzard.

- c. esophagus.
- d. cloaca.

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In the space provided, write the letter of the description that best matches the term or phrase.

16. ovoviviparous17. contour feathers	 a. order that includes turtles and tortoises b. hollow teeth used to inject venom c. detect odor of chemicals to help snakes follow prey
18. amniotic egg 19. Chelonia	d. fertilized eggs develop within a female's body until the eggs hatch
20. alveoli	e. direct venom into the victim through bite wounds
21. plastron	f. give an adult bird its shapeg. the bottom part of a turtle or tortoise shell
22. Jacobson's organs	h. has a jaw that is only loosely connected to its skull
23. snake	i. the top part of a turtle or tortoise shell
24. grooved teeth	j. grape-shaped chambers that increase the surface area of a reptile's lungs
25. carapace	 k. contains both water and food for a developing embryo
26. fangs	

Complete each statement by writing the correct term or phrase in the space provided.

27. Crocodiles are the only living reptiles that have a completely divided

28. Because the ______ in a bird's heart is completely divided,

oxygen-rich and oxygen-poor blood are kept completely ______.

- 29. A timber rattlesnake's venom contains ______ that destroy red blood cells and cause internal hemorrhaging.
- 30. The success of lizards and snakes as predators is partially because of how the

______ is connected to the skull.

31. Like reptiles, birds lay ______ and have

_____ on their legs and feet.

Questions 32 and 33 refer to the figure below, which shows the reptilian circulatory system.



32. Oxygen-poor blood from point A enters the _____

______, while oxygen-rich blood from point B enters the

33. Arteries carry oxygen-rich blood from the ______, labeled C, to

the body and oxygen-poor blood to the _____

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34. Unlike reptiles, birds have and and	
35. A long, flattened, rounded bill, as found in, is adapted	
for	
36. Feathers are modified reptilian	
37. Most reptiles cannot live in very cold regions because they are	
38. Reptiles, birds, and three species of mammals reproduce by means of a(n)	
with a(n)	
This is evidence that they share a(n)	
Read each question, and write your answer in the space provided.	
39. List the four orders of present-day reptiles, and give an example of each.	
40. Describe the structure and function of a turtle's shell.	
	-
41. Which is more efficient—a bird lung or a reptile lung? Explain.	