Bio.G12-Q3W6-Mammals-Qs. Bank

Multiple Choice

Identify the choice that best completes the statement or answers the question.

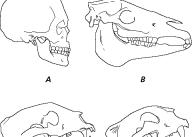
	1.	What is the hair of a mammal made of?		
		a. Cellulose	c.	Chitin
		b. Keratin	d.	Chlorophyll
	2.	What is a group of cells that secretes fluid calle	ed?	
		a. Diaphragm	c.	Gland
		b. Placenta	d.	Organ
	3.	Which of the following is characteristic of man	nma	ls?
		a. Mammary glands	c.	Diaphragm
		b. Four-chambered heart	d.	All of the above
	4.	What are teeth used primarily for crushing and	grir	
		a. Molars	c.	Incisors
		b. Canines	d.	Chisel
	5.			nammal. Upon examining the teeth of the animal, you find
			lars.	What type of lifestyle did this animal probably live?
		a. Herbivorous	с.	Omnivorous
	_	b. Carnivorous		It cannot be determined.
	6.			
		a. Placenta		Uterus
	_	b. Diaphragm		Pouch
	7.		elop	for a short period within the mother, followed by another
		period outside the mother in a pouch? a. Placental		Margunial
		b. Monotreme	c. d.	Marsupial Primate
	0			
	8.	In which of the following areas would you find a. Australia		Tasmania
		b. New Guinea	c. d.	
	9.	During which era did mammals experience a d		
	9.	a. Precambrian	C	Mesozoic
		b. Cenozoic	d.	None of the above
	10.	What do mammals contract to inhale?		
	10.	a. Lungs	c.	Diaphragm
		b. Mammary gland	d.	Heart
	11	Premolars and molars are used for		
	11.	a. shearing.	C.	grinding.
		b. crushing.	d.	all of these.
	12.	-		
		a. bears and other omnivores.	c.	many hoofed mammals.
		b. tigers and other carnivores.	d.	all of these.
_	13.			
		a. greatly elongated finger bones.	c.	short bones and large claws.
		b. strong, slender bones.	d.	none of these.
	14.	Chimpanzees are intelligent enough to		
		a. use tools.	c.	work machines.

- b. use sign language.
- _____15. Which of these mammals is a monotreme?
 - a. Tasmanian devil
 - b. kangaroo
- _____ 16. Most marsupials are found in _____.
 - a. America
 - b. Antarctica
- _____ 17. The folds in the mammalian brain _____.
 - a. increase the surface area
 - b. secrete necessary fluids
 - c. form ridges for storing learned behavior
 - d. transfer heat from the body to the environment

18. An animal jaw that has small incisors and canines but wide premolars and molars may belong to a _____.

- a. beaver
- b. dolphin
- _____ 19. The main advantage of hair is that it _____.
 - a. protects the skin
 - b. provides mucus

- c. horse
- d. wolf
- c. conserves body heat
- d. can be shed





- _ 20. Which of the skulls shown in Figure 32-2 belongs to an animal that does not hunt?
 - a. A c. C b. B d. D
- 21. Which of the skulls shown in Figure 32-2 are built to eat a variety of foods?
 - a. A and Bc. B and Cb. A and Cd. C and D

22. What is the primary source of food for the animal with skull D as shown in Figure 32-2?

- plants c. carrion
- b. insects

a.

d. meat

- d. all of these.
- c. chimpanzee

Australia

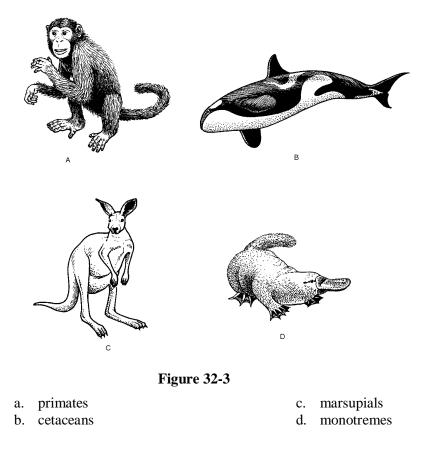
Africa

d. platypus

c.

d.

23. According to Figure 32-3, which order of mammals is most closely related to reptiles?



True/False

Indicate whether the statement is true or false.

- _____ 24. The size and shape of a mammal's teeth can give valuable clues about its diet.
- _____ 25. Plant-eaters such as horses and cows have well-developed canine teeth for piercing food.
- _____ 26. The teeth of mammals are generally more uniform than the teeth of fishes and reptiles.
- _____ 27. By chewing their cud and then swallowing it, some mammals help bacteria break down the cellulose in their food.
- _____ 28. Mammalian limbs are adapted for a variety of methods of food gathering.
- _____ 29. Moles use their opposable thumbs to grasp objects.
- _____ 30. One reason mammals are successful is that they guard their young and teach them survival skills.
- _____ 31. Complex nervous systems and highly developed brains make it possible for many kinds of mammals to learn.

Modified True/False

Indicate whether the statement is true or false. If false, change the identified word or phrase to make the statement true.

- _____ 32. Both mammals and reptiles share one aspect of their reproductive cycle--<u>external</u> fertilization.
- 33. The nourishment of the young inside the uterus occurs through the placenta. 34. The golden age of mammals is the Mesozoic Era. 35. The most intelligent mammals are the carnivores. 36. Molars are used for crushing and grinding food. _____ 37. Teeth called <u>incisors</u> are used to puncture and tear the flesh of prey. ______ _____ 38. Marsupials in continents other than Australia lost out in competition with monotremes. Completion *Complete each statement.* 39. Female mammals feed their young with milk produced by ______. 40. In addition to milk and sweat, the glands of mammals produce ______, _____, and _____. 41. The milk of mammals is rich in ______, sugars, _____, minerals, and 42. A mammal's muscular ______ expands the ______ bringing air into the lungs with each breath. 43. Like birds, mammals have hearts in which is kept entirely separate from ______. 44. A(n) ______ is a mammal that reproduces by laying eggs. 45. A(n) is a mammal in which the young have a short period of development inside a pouch made of skin and hair found on the outside of the mother's body. _____ is a hollow muscular organ in female mammals in which the development of 46. The offspring takes place. 47. is an adaptation that enables many hoofed mammals to break down the cellulose of plant cell walls into nutrients that they can use and absorb. ______ is the sheet of muscle located beneath the lungs that is used to expand and 48. A(n) _____ contract the chest cavity of mammals. 49. During the Cenozoic era, mammals increased in number while the ______ were decreasing in number. 50. mammal groups evolved from therapsids. 51. The placenta is an organ that passes _______ to and removes wastes from the developing embryo.
 - 52. An example of a monotreme is the _____.

Short Answer

- 54. Why are mammals able to live in almost every possible environment on Earth?
- 55. How do sweat glands help regulate body temperature?
- 56. What characteristic sets monotremes apart from all other mammals?
- 57. What environmental changes in Earth might favor the evolution of more reptile-like animals?
- 58. What characteristics do mammals and birds have in common?
- 59. Give three features that characterize mammals.
- 60. What reproductive strategies help mammals to be successful?
- 61. The fat content of the milk produced in the mammary glands of humans differs from that of marine mammals. In human milk, the percent of fat to total nutrients is three to five percent. The percent of fat to total nutrients in the milk of marine mammals is 30 to 40 percent. How would you account for this difference in fat content?

Mammal	Body Mass (kg)	Average Heart Rate (beats/minute)
Sheep	50	70–80
Harbor porpoise	170	40–110
Horse	380–450	34–55
Elephant	2000-3000	25–50

Table 3	32-1
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- 62. Based on Table 32-1, what happens to heart rate as body mass decreases?
- 63. Which animal has the highest body mass in Table 32-1?

Bio.G12-Q3W6-Mammals-Qs. Bank Answer Section

MULTIPLE CHOICE

1. ANS: B

Mammalian hair is made of keratin. Mammals are the only organisms with hair.

PTS: 1

2. ANS: C

A gland is a group of cells that secretes fluids. Mammals have glands that secrete saliva, sweat, hormones, and other fluids.

PTS: 1

3. ANS: D

Mammals have mammary glands for nursing, a four-chambered heart, and a diaphragm for respiration.

PTS: 1

4. ANS: A

Molars are teeth used for grinding and crushing food.

PTS: 1

5. ANS: A

Herbivores generally have only molars and premolars, used to grind the cellulose found in plants.

PTS: 1

6. ANS: C

The offspring of some mammals develop in the uterus, a hollow, muscular organ.

PTS: 1

7. ANS: C

Marsupials develop for a short time inside the mother, followed by an extended period in a pouch located on the outside of the mother's body.

PTS: 1

8. ANS: D

Monotremes are found only in Australia, Tasmania, and New Guinea.

PTS: 1

9. ANS: B

The population of mammals exploded during the Cenozoic Era, sometimes called the golden age of mammals.

PTS: 1

10. ANS: C

Contraction of the diaphragm causes the chest cavity to expand and take in large amounts of air.

PTS: 1

11.	ANS: D	PTS:	1				
12.	ANS: C	PTS:	1				
13.	ANS: B	PTS:	1				
14.	ANS: D	PTS:	1				
15.	ANS: D	PTS:	1	DIF:	В	OBJ:	32-3
	NAT: F3 F4 F5						
16.	ANS: C	PTS:	1	DIF:	В	OBJ:	32-3
	NAT: F3 F4 F5						
17.	ANS: A	PTS:	1	DIF:	В	OBJ:	32-1
	NAT: A1 C5 C6						
18.	ANS: C	PTS:	1	DIF:	В	OBJ:	32-2
	NAT: C3 C5 C6				_		
19.	ANS: C	PTS:	1	DIF:	В	OBJ:	32-1
•	NAT: A1 C5 C6	DTG		БИБ	Ð	ODI	~~~~
20.	ANS: B	PTS:	1	DIF:	В	OBJ:	32-2
21	NAT: C3 C5 C6	DTC	1	DIE	•	ODL	22.2
21.	ANS: B	P15:	1	DIF:	A	OBJ:	32-2
$\gamma\gamma$	NAT: C3 C5 C6 ANS: D		1	DIE	А	OBJ:	37.7
<i>LL</i> .	NAT: C3 C5 C6	F15.	1	$D\Pi^{*}$.	A	ODJ.	32-2
23	ANS: D	ρτς.	1	DIF:	Δ	OBJ:	37-3
23.	NAT: F3 F4 F5	115.	1		11	ODJ.	54-5

TRUE/FALSE

24.	ANS:	Т	PTS:	1	
25.	ANS:	F	PTS:	1	
26.	ANS:	F	PTS:	1	
27.	ANS:	Т	PTS:	1	
28.	ANS:	Т	PTS:	1	
29.	ANS:	F	PTS:	1	
30.	ANS:	Т	PTS:	1	
31.	ANS:	Т	PTS:	1	

MODIFIED TRUE/FALSE

32. ANS: F, internal

33	PTS: ANS:	-	DIF:	В	OBJ: PTS:		NAT: F3 F4 F5 DIF: B
55.		32-4	NAT:	F3 F4 F5	r 15.	1	DII ¹ . B
34.	ANS:	F, Cenozoic					
35.	1101	1 F, primates	DIF:	В	OBJ:	32-2	NAT: C3 C5 C6
	PTS:	· •	DIF:	В	OBJ:	32-3	NAT: F3 F4 F5

ANS: T OBJ: 32-1	NAT: A1 C5 C6	PTS: 1	DIF: B
ANS: F, canines PTS: 1	DIF: B	OBJ: 32-1	NAT: A1 C5 C6
ANS: F, placental n PTS: 1	nammals DIF: B	OBJ: 32-2	NAT: C3 C5 C6

COMPLETION

39.	ANS:	mammary gla	nds					
40.	PTS: ANS:		ve enzy	mes, hormones				
41.	PTS: ANS:	1 fats, proteins,	vitamir	15				
42.	PTS: ANS:	1 diaphragm, ch	lest cav	ity				
43.	PTS: ANS:		ed, oxy	genated blood,	deoxyg	enated blood		
44.	PTS: ANS:	1 monotreme						
45.	PTS: ANS:	1 marsupial	DIF:	В	OBJ:	32-4	NAT:	F3 F4 F5
46.	PTS: ANS:		DIF:	В	OBJ:	32-4	NAT:	F3 F4 F5
47.	PTS: ANS:	1 Cud chewing	DIF:	В	OBJ:	32-3	NAT:	F3 F4 F5
48.	PTS: ANS:	1 diaphragm	DIF:	В	OBJ:	32-2	NAT:	C3 C5 C6
49.	PTS: ANS: dinosa reptile	urs	DIF:	В	OBJ:	32-1	NAT:	A1 C5 C6
50.	PTS: ANS:		DIF:	А	OBJ:	32-2	NAT:	C3 C5 C6
	PTS:	1	DIF:	А	OBJ:	32-2	NAT:	C3 C5 C6

51.	ANS: oxygen and for	bod				
52.	PTS: 1 ANS: spiny anteater duck-billed platypus	DIF:	А	OBJ:	32-4	NAT: F3 F4 F5
53.	PTS: 1 ANS: Monotremes	DIF:	В	OBJ:	32-3	NAT: F3 F4 F5
	PTS: 1	DIF:	В	OBJ:	32-4	NAT: F3 F4 F5

SHORT ANSWER

54. ANS:

As endotherms, they can maintain a fairly constant body temperature.

- PTS: 1
- 55. ANS:

They secrete water onto the skin's surface. As the water evaporates, it removes heat from the body.

PTS: 1

56. ANS:

Monotremes lay eggs instead of giving birth to live young.

PTS: 1

57. ANS:

Answers will vary. Perhaps a warmer climate would allow more reptile-like adaptations. Dryness would favor lizard and snakelike animals, while wet conditions might favor turtle and crocodile-like reptiles.

PTS: 1 DIF: A OBJ: 32-2 NAT: C3 | C5 | C6

58. ANS:

Both are endotherms. Birds have feathers to insulate their bodies; mammals have hair for insulation. The origin of both birds and mammals can be traced to reptiles.

PTS: 1 DIF: A OBJ: 32-1 NAT: A1 | C5 | C6

59. ANS:

Mammals have hair; the females nurse their young from mammary glands; they have teeth that vary with the kind of food they eat. A diaphragm and several kinds of glands are also characteristics.

PTS:	1	DIF: A	OBJ: 32-1	NAT: A1	C5 C6

60. ANS:

Mammals guard their young fiercely and teach them how to survive. The females have mammary glands to nourish their young until they are mature enough to find their own food.

- PTS: 1 DIF: A OBJ: 32-4 NAT: F3 | F4 | F5
- 61. ANS:

Answers may vary. Human infants lead a protected life. Their bodies are not under stress from the cold environment, such as that where marine mammals are born. Because marine mammals have to become active immediately, they need the high energy of the fatty milk. The fat also helps the marine infants to build up a layer of blubber as insulation against the cold.

	PTS: 1	DIF: A	OBJ: 32-2	NAT: C3 C5 C6
62.	11.00	ses as body mass decre	22.22	
	The heart fate hiereas	ses as body mass deciv	cases.	
	PTS: 1	DIF: A	OBJ: 32-2	NAT: C3 C5 C6
63.	ANS: the elephant			
	PTS: 1	DIF: A	OBJ: 32-2	NAT: C3 C5 C6