

Lesson 6c: Mammals

I. True or False: Write T for True and F for False.

- T 1. All mammals have hair.
- F 2. Except for aquatic mammals, all animals have hair.
- T 3. Mammals' nervous system is the most advanced among all other animal groups.
- F 4. Because mammals have a reduced number of ribs, their spinal column is less flexible and more rigid than others.
- T 5. All non-mammalian synapsid groups became abundant when dinosaurs became abundant.
- F 6. Hair grows continuously in the follicle along with new hairs.
- F 7. Ruminant herbivores have a huge 3-chambered stomach.
- T 8. Mammals are the most highly differentiated group in the animal kingdom.
- F 9. As with all vertebrates, skin is made of epidermis and dermis. In mammals, the epidermis becomes much thicker than the dermis.
- T 10. Mammals do not continuously replace teeth.
- F 11. Insectivores have reduced or absent canines but have broad and high-crowned molars.

II. Identification: Write your answer on the blanks provided below.

1. hair is a critical sign of being a mammal.
2. Most mammals have a specialized placenta to feed the embryo.
3. habitat destruction is a factor in 300 species and subspecies being considered endangered.
4. synapsids were the first amniotes to radiate widely into terrestrial habitats.
5. The earliest mammals of the late Triassic were diphyodonts animals that initially had deciduous teeth and consecutively had permanent teeth.
6. Hair grows continuously by rapid proliferation of cells in the follicle.
7. symodonts were the last therapsids subgroup to evolve and survive into the Mesozoic.
8. With the evolution of a new jaw joint between the dentary and squamosal bones in mammals, bones of the previous jaw joint, the articular and quadrate, continued their gradual reduction in size and became relocated in the middle ear, where they became the malleus and incus, respectively.
9. A secondary palate allowed mammals to breathe while holding prey or chewing food. This would be important later to mammal evolution by allowing young to breathe while suckling.
10. therapsids were the only synapsid group to survive beyond the Paleozoic. They were the first to have an efficient erect gait with upright limbs beneath the body.

20. embryonic diapause is a period of arrest where the development of the embryo is temporarily suspended.

III. Enumeration: Enumerate what is asked of.

- A. Extinctness of Mole

- T 12. Mammals skin is generally thicker than in other classes of vertebrates.
- F 13. Carnivores have a high protein diet, thus their digestive tracts must be longer to accommodate the food being digested.
- F 14. Carnivores have less leisure time because most of their time is spent on finding and killing prey.
- T 15. The smaller the animal, the greater is its metabolic rate and the more it must eat per unit size.
- F 16. The amount of food varies in proportion to the body weight rather than the body surface area.
- F 17. Larger mammals spend much more time hunting and eating food than smaller mammals.
- T 18. Gestation is longer than in marsupials and is much longer for large mammals.
- F 19. Humans are faster at developing than any other mammal, this contributes to their uniqueness.
- T 20. Gestation and body size are loosely correlated because there is variation in maturity at birth.

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11. trithelodonts, a small, carnivorous group within the cynodont clade resembled mammals.
12. Loss of hatchet ribs in cynodonts is correlated with the evolution of a diaphragm and also may have provided greater dorso-ventral flexibility of the spinal column.
13. The epidermis thickens to form a milk line along which mammals appear.
14. lunulate bones provide a high surface area for warming and moistening inspired air and for reducing moisture loss during exhalation.
15. Herbivores use anaerobic fermentation chambers so microorganisms can metabolize cellulose. A side pocket or cecum may also serve as a fermentation chamber and absorptive area.
16. The ultimate number of young produced per year also depends on the mortality rate.
17. Hares, rabbits, and some rodents eat fecal pellets in order to provide additional fermentation.
18. Female mammals usually restrict mating to a fertile period during the periodic estrous cycle. This time of female receptivity is known as heat or estrous.
19. Some animals lengthen the gestation period by delayed implantation. Here, the blastocyst remains dormant while its implantation in the uterine wall is postponed to align birth with a favorable season.

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IV. Fill the Tables: Fill in the following table with the correct answer.

| 1-4. | fish | reptiles | birds | mammals |
|---------------|----------------|----------------|------------------|------------------|
| heteroplasit/ | 1. <u>homo</u> | 2. <u>homo</u> | 3. <u>hetero</u> | 4. <u>hetero</u> |

Mammals Review Guide Answer Key

RJ Alexander



Mammals Review Guide Answer Key:

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