Bago University
Department of Zoology
Second Semester Examination, September 2019

Second Year (B.Sc)
(Zoology Specialization)
Answer ALL questions

Zool. 2114
Mammalogy
Time Allowed: (3) Hours

I. State TRUE or FALSE to the following statements. **(10 marks)**

1. Parental care is most highly developed in mammals.
2. In mammals, ten pairs of cranial nerves are present.
3. Most animals move quadrupedally.
4. Only the bats have evolved true power flight or volant locomotion.
5. The Koala is well adapted for arboreal life.
6. The platypus is an aquatic insectivore that feeds on benthic worms.
7. Predators that eat fish are piscivorous.
8. Rumination is also hindgut fermentation.
9. Mammalian brain consists of four major regions.
10. Echidnas do not have teeth.

II. Complete the following statements with appropriate words. **(10 marks)**

1. The senses of sight, hearing and ------ are highly developed.
2. The two parts of the claws are ------ and unguis.
3. Bats have a number of morphological adaptation for ------.
4. Three species of mammals produce venomous ------.
5. Insectivorous bats are ------ eaters.
6. Most chiropterans feed on insects taken on the ------.
7. Digestion of cellulose in hindgut fermenters occur in the ------.
8. Animals that consume fungi are referred to as ------.
9. The internal ear in mammals has several specialized ------.
10. Hormones play key roles in many mammalian ------systems.

III. Answer ALL questions **(10 marks)**

1. State Order 'Dermoptera'.
2. Mention the term 'countershading'.
3. Explain the hyoid apparatus.
4. List the three species of bats that are known to capture and eat fish.
5. Mention about 'food hoarding or caching' habit found in squirrels.

IV. Answer ALL questions **(20 marks)**

1. State the functions of scent glands.
2. Explain various combinations of adaptations of bone and muscle.
3. List the caching patterns of the members of five families of carnivores.
4. State briefly on 'biological rhythms'.

V. Answer ANY THREE questions **(30 marks)**

1. Writ an account on pronghorn antelope.
2. Describe briefly on the key characteristics of the skull.
3. Explain on maneuverability.
4. Give precise account on two kinds of fermentation processes of herbivores.
5. Briefly short notes on coprophagy in hindgut fermenters.
6. Write an interesting account on touch in most mammals.

ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ