

Mid-West University  
Examinations Management Office  
End Semester Examinations 2081

Bachelor level/ B.Sc. / 6<sup>th</sup> Semester

Time: 3 hours

Subject: Comparative Anatomy and Physiology (ZOO461)

Full Marks: 60

Pass Marks: 30

*Candidates are required to give their answer in their own words as far as Practicable. The figures in the margin indicate full marks. Use separate answer sheet for Inorganic, Organic and Physical parts.*

**Group: A**

**Answer the following questions in detail.**

**[4×8=32]**

1. Describe briefly the different methods of transportation of oxygen and carbon dioxide.
2. Explain the origin and conduction of heart beat with the help of figure.
3. Give an account on homeostasis. Explain how kidney acts as homeostatic organ.
4. Explain various types of neurons. Write in short about the conduction of nerve impulse.

**OR**

Draw comparative well labeled diagrams of vertebrate's heart with brief description.

**Group B**

**Answer the following questions in brief.**

**[7×3=21]**

5. Write short notes on types and functions gastric juice.
6. Draw a well labeled diagram of T.S of Liver. (no description required)
7. Describe the causes and preventions of hypotension.
8. Write short notes on blood.
9. What do you mean by dialysis? Discuss the causes of renal failures.
10. Write short notes on integuments of pisces.
11. Explain Bohr's effect.

**OR**

Write short note on Electrocardiograph.

**Group C**

**12. Attempt the following questions in very short. [Any Seven]**

**[7×1=7]**

- a) Define single circulation.
- b) Define the term 'ureotelic'.
- c) From where succus entericus is produced?
- d) What is vital capacity?
- e) What is meant by counter current mechanism?
- f) How do the intercostal muscles support the respiration?
- g) What do you mean by heart beat rate?
- h) What is the importance of bile pigment?
- i) What do you mean by ependymal cells?

**The End**