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**School of Biological and Life sciences**

**Master of Science in Zoology  
Mid Term Examination - May 2024**

**Duration : 90 Minutes**

**Max Marks : 50**

**Sem II - P1PN201T - Comparative Physiology***General Instructions*

*Answer to the specific question asked*

*Draw neat, labelled diagrams wherever necessary*

*Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Differentiate between ideal batch reactor and ideal continuous flow stirred tank reactor. K2 (2)
- 2) What are Poikilotherms and homeotherms? K1 (3)
- 3) Identify different respiratory organs in vertebrates. K2 (4)
- 4) Explain the survival mechanisms in poikilotherms and homeotherms. K2 (6)
- 5) Analyze the key differences among the different group of fishes. K3 (6)
- 6) Differentiate between the process of hibernation and aestivation K3 (9)
- 7) Summarize the process of respiration in amphibians K4 (8)
  
- 8) Examine the role of neural mechanisms involved in the control of thermoregulation. K4 (12)

**OR**

- Explain the mechanism of body by which it warm up under low temperature conditions. K4 (12)