

Anjuman Islam Janjira Degree College of Science Murud-Janjira, Raigad-402401 Affiliated to University of Mumbai	
Class: -F.Y.B.Sc (G.S)	Subject: - Zoology
Semester:- I	Course code: - MJ1
Exam Event:- (SH) Winter 2025	Marks: -30
Date: - 08/11/2025	Duration: - 01:00 Hours

- N.B:**
1. Attempt any two questions out of four.
 2. **Figures** to the right indicate full marks.
 3. Answer for the same question as far as possible should be written together.



Q. 1. Write a short note on the following.

- a. Describe the mechanism of respiration in amoeba. **05**
- b. Explain in detail the two-chambered heart. **05**
- c. What are Oviparity and viviparity, along with examples? **05**

Q. 2. Write a short note on the following.

- a. Describe the structure of the neuron with the help of a neat, labelled diagram. **05**
- b. What is the resting membrane potential and the action potential? **05**
- c. Explain single circulation and double circulation with a suitable diagram. **05**

Q.3. Answer the following.

- a. Describe the structure of four-chambered heart and explain its working mechanism. **08**
- b. What is gametogenesis? Describe the spermatogenesis. **07**

Q.4. Answer the following.

- a. Explain the conduction of a nerve impulse. **08**
- b. Define blood? Discuss the composition of blood in detail. **07**