

Anjuman Islam Janjira Degree College of Science Murud-Janjira, Raigad-402401 Affiliated to University of Mumbai	
Class: -F.Y.B.Sc (G.S)	Subject: - Major Zoology
Semester:- I Additional	Course code: - MJ1
Exam Event:- (FH) Summer 2025	Marks: -30
Date: - 19/04/2025	Duration: - 01:00 Hours

N.B:

1. Attempt any **two** out of four.
2. **Figures** to the right indicate full marks.
3. Use of log-table/nonprogrammable calculator is allowed.
4. Answer for the same question as far as possible should be written together.

Q. 1. Write short note on the following.

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|---|-----------|
| a. Explain the gas exchange (respiration) in single-celled organisms like Amoeba. | 05 |
| b. Define autotrophic and heterotrophic nutrition with examples. | 05 |
| c. Classify animals on the basis of nitrogenous excretory products. | 05 |

Q. 2. Write short note on the following.

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| a. Describe the steps involved in the binary fission of <i>Paramoecium</i> . | 05 |
| b. What is Oviparity and viviparity along with example. | 05 |
| c. Explain the role of each part of the alimentary canal in digestion in ruminants. | 05 |

Q.3. Answer the following.

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| a. Elaborate the gas exchange organ in fishes with suitable diagram. | 08 |
| b. Define fertilization? Discuss internal and external fertilization. | 07 |

Q.4. Answer the following.

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| a. Describe the structure of neurons. | 08 |
| b. Classify the types of circulation in animals. | 07 |