



**Progressive Education Society's**  
**Modern College of Arts, Science & Commerce Ganeshkhind, Pune 16**  
**End Semester Examination: Jan. 2023**  
**Faculty: Science and Technology**

**Program: BScGen03**

**Semester: I**

**SET: C**

**Program (Specific): Zoology**

**Course Type: CC**

**Class: F.Y.B. Sc**

**Max. Marks: 35**

**Name of the Course: Animal Systematics and Diversity I**

**Course Code: 22-ZO-111**

**Time: 2Hrs**

**Paper: I**

**Instructions to the candidate:**

- 1) There are 4 sections in the question paper. Write each section on separate page.*
- 2) All Sections are compulsory.*
- 3) Figures to the right indicate full marks.*
- 4) Draw a well labelled diagram wherever necessary.*

**SECTION: A**

**Q.1 Define/Explain**

**5**

- a) Gamma Taxonomy.
- b) Bilateral symmetry.
- c) Coelomate.
- d) Genetic Species.
- e) Triploblastic.

**Q.2 Attempt any four of the following**

**4**

- i. Define Evolutionary taxonomy.
- ii. Explain Metamorphosis.
- iii. Define Trichocyst.
- iv. Explain Ciliary locomotion.
- v. Define Oviparous animals.

**SECTION: B**

**Q.3 Write note on any four of the following**

**8**

- a) Describe Trinomial nomenclature.
- b) Sketch and label Sycon type of Canal system.
- c) Describe Class Calcarea.
- d) Describe Flagellary locomotion.
- e) Explain Kingdom Fungi.
- f) Write note on useful Protozoa.

**SECTION: C**

**Q.4 Attempt any four of the following** **8**

- i. Describe salient features of phylum Cnidaria.
- ii. Mention unicellular endoparasites.
- iii. Explain classification of Porifera up to the classes.
- iv. Describe adaptation in Platyhelminthes.
- v. State the Economic Importance of Protista.
- vi. Describe significance of conjugation.

**SECTION: D**

**Q.5 Attempt any two of the following.** **10**

- I. Explain five Kingdom classification.
- II. Describe types of canal system in Porifera.
- III. Explain Binary fission in *Paramecium* with the help of neat well labeled diagram.
- IV. Explain rules of Binomial Nomenclature.