

10/10/14  
Date: F.Y.BSc. Subject: Zoology Paper: I (USZO101) Sem: I Max Marks: 75  
Time: 2.30hrs.

Note: 1) All questions are compulsory  
2) Figures to the right indicate full marks  
3) Draw neat labeled diagram wherever applicable

- Q1 Answer in brief (any 2) 20
1. Define segmentation explain it in detail.
  2. Give a detail note on level of organization
  3. What are different types of symmetry
  4. Define asexual reproduction add a note on binary fission and budding
- Q2 A Answer any one of the following 10
1. Describe sliding filament theory of muscular contraction
  2. Describe heart types in chordates
- B Answer any two of the following 10
1. Structure of pseudopodia
  2. Digestion of carbohydrate
  3. Respiration by skin
  4. Heart of cockroach
- Q3 Answer any two of the following 20
1. Explain balance of an ecosystem and factors affecting them.
  2. explain water cycle along with diagram
  3. What do you mean by food chain and food web?
  4. Give details of parasitic adaptations
- Q4 Give shortnote on any three of the following 15
1. Explain ruminant stomach
  2. Detail transportation of carbon dioxide
  3. Nutrition in protozoa
  4. Acoelomata
  5. Symbiosis
  6. Predation and its example