

FACULTY OF SCIENCE

B.Sc. I Year (Practical) Examination

Subject : ZOOLOGY

Paper – I

QUESTION BANK

W.E.F. Annual 2009

Time : 3 Hours}

{Max. Marks: 50

**Note** : Handover the diagrams before commencement of the dissection for Q I and II.

**I. Major Dissection :** (12 marks)

Dissect and display the ... system.... and draw a neat labelled diagram.

Diag : 2 marks  
Disst: 10 marks

1. Reproductive and excretory system of Leech.
2. Nervous system of Prawn.
3. Nervous system of Pila / Unio

**II. Minor Dissection / Experiments :** (8 marks)

Dissect and display / prepare a glycerine mount of ..... Draw a labelled diagram .

Diag : 2 marks  
Disst: 6 marks

1. Nephridium of Leech / Jaw of Leech.
2. Cephalic appendages of Prawn.
3. Thoracic appendages of Prawn.
4. Statocyst of Prawn.
5. Radula of Pila.

6. Any two stages of Mitosis or Meiosis (2x4=8 marks)  
Diag : 1 each slide  
Points : 3 each slide

7. Squash preparation of onion/ garlic root tip for mitotic chromosomes (2+6=8 marks)  
Proc : 2  
Description : 6

8. Qualitative identification of Amino acids (2+6=8 marks)  
Proc : 2  
Expt : 6

**III. Identify, classify and give the reasons for identification: (5x4=20)**

**Note :** Break up of marks

Marks for identification 1 mark for classification (1mark)

Marks for diagram and description . (2 marks)

If classification not applicable 2 marks for identification and 2 marks for diagram and description.

**Museum Specimens and Slides :**

1. Elphidium
2. Monocystis
3. Paramecium
4. Binary fission of paramecium
5. Conjugation of paramecium
6. Spongilla
7. euspongia
8. Physalia
9. Velella
10. Corallium
11. Gorgonia
12. Aurelia
13. Pennatula
14. Obelia colony
15. Medusa
16. Planaria
17. Miracidium
18. Redia
19. Cercaria
20. Echinococcus granuloses
21. Schistosoma
22. Ancylostoma
23. Nereis
24. Aphrodite
25. Hirudo
26. Trochophore
27. Sacculina
28. Limulus
29. Julus
30. Scolopendra
31. Anopheles mouth parts of male
32. Anopheles mouth parts of female
33. Peripatus
34. Chiton
35. Unio
36. Teredo
37. Sepia
38. Octopus
39. Nautilus
40. Glochidium larva
41. Ophiothrix
42. Echinus
43. Clypeaster
44. Cucumaria
45. Antedon
46. Bipinnaria larva
47. Balanoglossus

48. Tornaria larva

IV. Record

10 marks

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