

**B.Sc. Zoology Question Bank CBCS 2019**  
**B.Sc. I Year**  
**ZOOLOGY PRACTICAL SYLLABUS FOR I SEMESTER**  
**Discipline Specific Course, Paper – I**  
**ANIMAL DIVERSITY – INVERTEBRATES**

**Time: 2 Hrs. Max.**

**Marks: 25**

1. Identification, labeled diagram and salient features of spots: 08M  
(6 Museum specimens + 2 slides)
2. Dissection (one) (Diagram -02 + Dissection & Display-05): 07M
3. Field Visit & Note Book 03M
4. Project Work 02M
5. Certified practical record 02M
6. Animal Album 01M
7. Viva voce 02M

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**B.Sc. ZOOLOGY SYLLABUS UNDER CBCS 2019**

(Practical One Credit equal to 3hrs)

**B.Sc. I Year**

**ZOOLOGY PRACTICAL SYLLABUS FOR I SEMESTER**

**Discipline Specific Course, Paper – I**

**ANIMAL DIVERSITY - INVERTEBRATES**

**Periods: 45 Max.**

**Marks: 25**

**1. Study of museum slides / specimens / models:(Classification of animals up to orders)**

**Protozoa:**

1. Amoeba
2. Paramecium
3. Paramecium Binary fission
4. Paramecium
5. Conjugation
6. Vorticella
7. Entamoeba histolytica
8. Plasmodium vivax

**Porifera:**

9. Sycon
10. Spongilla
11. Euspongia.
12. Sycon - T.S or L.S
13. Spicules.
14. Gemmule

**Coelenterata:**

15. Obelia Colony
16. Obelia Medusa
17. Aurelia
18. Physalia
19. Velella
20. Corallium
21. Gorgonia
22. Pennatula

**Platyhelminthes:**

23. Planaria
24. Fasciola hepatica. Fasciola larval forms
25. Miracidium
26. Redia
27. Cercaria
28. Echinococcus granulosus
29. Taenia solium
30. Schistosoma haematobium

**Nemathelminthes:**

31. Ascaris (Male & Female)
32. Dracunculus
33. Ancylostoma
34. Wuchereria

**Annelida:**

35. Nereis
36. Aphrodite
37. Chaetopterus
38. Hirudinaria
39. Trochophore larva

**Arthropoda:**

40. Cancer
41. Palaemon
42. Scorpion
43. Scolopendra
44. Sacculina
45. Limulus
46. Peripatus

**Larvae (crustacea):**

47. Nauplius
48. Mysis
49. Zoea
50. Mouthparts of Housefly
51. Mouthparts of Butterfly
52. Mouth parts of male or female mosquito:  
a. Anopheles and b. Culex

**Mollusca:**

53. Chiton
54. Pila
55. Unio
56. Pterodo
57. Murex

- 58. Sepia
- 59. Loligo
- 60. Octopus
- 61. Nautilus
- 62. Glochidium larva

**Echinodermata:**

- 63. Asterias
- 64. Ophiothrix
- 65. Echinus
- 66. Clypeaster
- 67. Cucumaria
- 68. Antedon
- 69. Bipinnaria larva

**2. Dissections: (Computer aided techniques should be adopted – show virtual dissections)**

**Prawn:**

- a. Appendages
- b. Digestive system
- c. Nervous system
- d. Mounting of Statocyst
- e. **Insect Mouth Parts**(mosquito/ house fly/Butter fly)

**3. Field Visit & Note Book**

**4. Project Work**

5. Certified practical record **shall be submitted at the time of practical examination**

6. **“Animal album”** containing photographs, cut outs, with appropriate write up about the above mentioned taxa. Different taxa/ topics may be given to different sets of students for this purpose.

7. Viva voce

**Suggested manuals:**

- 1. Practical Zoology- Invertebrates S.S. Lal
- 2. Practical Zoology - Invertebrates P.S. Verma
- 3. Practical Zoology - Invertebrates K.P. Kurl