

ZOOLOGY(PRACTICAL)

- NOTE: 1) Taenia solium gravid proglottid (invertebrate slide) is deleted from the first year syllabus
- 2) Nerve cell (Vertebrate slide) is deleted.
- 3) Collection of Mosquito larvae and culture of paramoecium will not considered for practical examination as these are the suggested activities that can be taken up for acquiring additional skills.

BOARD OF INTERMEDIATE EDUCATION :: AP., HYDERABAD

ZOOLOGY (PRACTICALS)

Pattern of Practical Examination at the end of 2nd year Intermediate with effect from 2005-06

Time : 3 Hours
Part I : Dissection: Max. Marks : 30
10 Marks

Diagram	=	3 Marks
Labelling	=	2 Marks
Dissection	=	3 Marks
Display	=	2 Marks
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		10 Marks
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Part II : Physiology Experiment: 5 Marks

Principle	=	1 Mark
Procedure	=	2 Marks
Result	=	2 Marks
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		5 Marks
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Part III : Identification of 5 Spotters :

One Invertebrate slide	=	2 Marks
One Invertebrate specimen	=	2 Marks
One Vertebrate slide	=	2 Marks
One Vertebrate specimen	=	2 Marks
One Skeletal Joint	=	2 Marks
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		10 Marks
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(Identification 1/2 Mark, Diagram and Labelling 1/2 Mark, Identification points 1 Mark = 2 Marks)

Part IV : Records
Total 5 Marks
30 Marks

PRACTICAL SYLLABUS I & II YEARS

Question Bank

PART-1

DISSECTIONS

1. **Frog** : Dissect and Display the Digestive System. Draw a neatly labelled diagram.
2. **Cockroach** : Dissect and display the digestive system. Draw a neatly labelled diagram.
3. **Earth Worm** : Dissect and display Digestive system. Draw a neatly labelled diagram
4. **Frog** : Dissect and Display the three Arterial trunks on one side. Draw a labelled diagram.
5. **Frog** : Dissect & display the posterior part of the arterial system, showing dorsal aorta and its main branches.
6. **Frog**: Dissect and display the three main veins that enter the sinus venosus. Draw the diagram & label the parts.
7. **Cockroach** : Dissect and display the Nervous System. Draw labelled diagram.
8. **Earthworm**: Dissect and display the Nervous System. Draw labelled Diagram.
9. **Frog**: Dissect and Display the Urinogenital System. Draw a labelled diagram.
10. **Cockroach**: Prepare a glycerine mount of the mouth parts. Draw a labelled diagram.
11. **Earthworm**: Dissect and Display the spermathecae. Draw a labelled diagram.

PART-II
PHYSIOLOGY EXPERIMENTS

12. Demonstrate the Digestion of Starch by Salivaryamylase. Write the principle and detailed procedure.
13. Identify the presence of starch in the given samples ABCD. Write the principle and detailed procedure.
14. Report the presence or Absence of sugar in the given samples of Urine ABCD write the Principle and procedure.
15. Report the presence of Urea in the given Urine samples. Write the principle and procedure.
16. Report the presence of Ammonia in the given Urine.
17. Report the presence of Albumin in the given Urine samples ABCD. Write the principle and procedure.

PART - III
IDENTIFICATION OF SPOTTERS

A. Invertebrate Slides:

18. Amoeba
19. Euglena
20. Paramecium (W.M)
21. Paramecium Binary Fission
22. Paramecium - conjugation
23. Hydra (W.M)
24. Taenia solium - scolex
25. Taenia solium mature proglottid (T.S)
26. Mouth parts of Anopheles mosquito - male
27. Mouth parts of Anopheles mosquito - female
28. Mouth parts of House fly
29. Mouth parts of Butter fly

B. Invertebrate specimens :

30. Euspongia
31. Jelly Fish
32. Sea - Anemone
33. Ascaris - male
34. Ascaris - Female

35. Nereis
36. Leech
37. Centipede (Scolopendra)
38. Millipede
39. Prawn
40. Spider
41. Scorpion
42. Unio (Fresh water museel)
43. Pila
44. Star fish

C. VERTEBRATE SLIDES

45. Squamous epithelium
46. Columnar epithelium
47. T.S. of cartilage
48. T.S. of bone
49. Striated muscle
50. Smooth muscle
51. Cardiac muscle
52. T.S. of stomach
53. T.S. of intestine
54. T.S. of Kidney
55. T.S. of Liver
56. T.S. of Pancreas
57. T.S. of Testis
58. T.S. of ovary

D. Vertebrate Specimens:

59. Sea snake
60. Cobra
61. Bungarus
62. Russels Viper
63. Echis carinata

E. Joints (Joints of Frog or Rabbit):

64. Ball & Socket joint
65. Hinge joint
66. Pivotal joint
67. Gliding joint

Note: Practical syllabus in Botany and Zoology for 1st year and 2nd year effective from the academic year 2005-2006. The existing practical syllabus Question paper pattern and Question Bank in respect of Physics and Chemistry subjects remains the same.