

Bsc (Biology) Practical

Subect: Zoology

Required Instruments, Toolkit and other Items

S.No.	Item
1	pH meter
2	Colorimeter
3	Centrifuge
4	Simple microscope, Compound Microscope, Dissecting Microscope
5	Blood grouping Kit, RBC,WBC pipette, Haemocytometer, Haemoglobin meter, Chemicals
6	Chromatography jar/chamber. chemicals
7	Test tubes, burners, Chemicals (for biochemical detection of carbohydrate, protein and Lipid)
8	Spectrophotometer
9	Electrophoresis
10	Specimen and different slides (As per practical's)
11	Prinking needles
12	Quadrant
13	Glass Ware- Slides, conical flasks, baker, Test tube, sprayer, watch glass, dropper, Test tube holder, dropping bottle, stand holder, filter paper

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Specimen:

1. Porifera- Sycon, Euplectella, Euspongia
2. Coelentrata- Pennatula, Aurelia
3. Platyhelminthes- Fasciola, Planaria, Taenia
4. Namatoda- Ascaris male & female
5. Annelida- Nereis, Leech, Earthworm
6. Arthropoda Millipede, Prawn, Periplanata, Scorpion
7. Mollusca Unio, Pila, Octopus
8. Echinodermata Asterias, Antidon
9. Hemichordata Balanoglossas
10. Urochordata -Herdmania, Salpa, Oikopleura larva
11. Cephalochordata -Amphioxus
12. Cyclostomata -Petromyzon, Myxine
13. Fishes -Tarpedo, Labio, Hippocampus
14. Amphibia lethyophis-1. Ambyostoma, Hyla, Rana.2. Axoloti Larva,
15. Reptelia -Draco, Naja, Trionyx
16. Aves -Pegeon
17. Mammalia -Rat, Bat
18. Skeleton of Frog, Varanus, Fowl, Rabbit
19. Homologous and Anologous organ
20. Specimen of Parasite –
 1. Fasciola 2. Taenia solium 3. Bladder worm
 4. Scistosoma 5. Ascaris male & female
21. Specimen of Poisoner Snakes-
 1. Viper 2. Naja 3. Krait

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Slides:

1. Paramecium
2. Sycon T.S.
3. Obelia colony (WM)
4. Planaria (WM)
5. Cercaria Larva
6. Nereis Parapodia (WM)
7. Mouthparts of Cockroach
8. Zoea Larva
9. Glochidium Larva
10. Bipinnaria Larva
11. Balanoglossus T.S. Coller region
12. Metaphase
13. Anaphase
14. Glogi Bodies
15. Mitochondria
16. Study of permanent slides –Placoid scale, Cycloid scale, Ctenoid scale
Aves – Down fether Filoplume
V.S. Skin of Mammal
T.S. Liver, T.S. Pancreas,
T.S. Stomach, T.S. Pitutary gland,
Small Intestine T.S. Thyroid gland,
Large Intestine T.S. Adrenal gland
T.S. Lung T.S. Strited muscle
T.S. Spinal T.S. Unstrited muscle
T.S. Kindney T.S. Nerve cell
T.S. Testis Squamus epithelium
T. S. Ovary, Columner epithelium
Blood Smear Bone decalcified
17. Placoid Scales
18. Cycloid Scales
19. Frog Blastula
20. Frog Gastrula
21. Chick embryo – 18 Hrs
22. Chick embryo – 24 Hrs
23. Down Feather

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24. Filoplume
25. Mammal V.S. of Skin
26. Mammal T.S. of Kidney
27. Mammal T.S. Ovary
28. Mammal T.S. of Testis
29. Ecology – Grassland, Pond Ecosystem
30. Estimation of population density percentage frequency
31. Slides of Parasites –
 1. Entamoeba Histolytica
 2. Giardia
 3. Trypanosoma
 4. Tape worm scolex
 5. Loa Loa
 6. Pin worm WM Enterobius
 7. Hook worm WM- Anchylostoma
 8. Dracunculus WM
 9. Trichenella Spiralis
 10. Anopheles Female WM
 11. Culex Male WM
 12. Rat flea
 13. Pediculus
 14. Bed Bug

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List of Chemicals:

1. Distilled water
2. Glacial acetic acid
3. N- Butanol
4. Chromatography paper no 01 (what mans filter paper)
5. Amino acid kit
6. Ninhydrin
7. Acetone
8. Molischs reagent
9. Con. H₂SO₄
10. Cupric Sulphate Solution
11. Sodium Hydroxide solution
12. Glucose Powder
13. Starch Powder
14. Protein Hake
15. Fehling solution A and B
16. Benedict Solution
17. Iodine solution
18. Copper sulphate
19. Millions reagents
20. Sudan solution
21. Sodium chloride
22. Sodium sulphate
23. Rectified spirit
24. Methylene Blue
25. Gentian violet
26. Con. HCL
27. Carnoys Huid
28. Acetocarmine
29. Blotting paper
30. Crustal violet
31. Ethyl alcohol
32. Leishman's Stain
33. Blood group detection antisera
34. Cotton