

**Equipment (required for Zoology Department FY. 2018 – 19)**

<b>Sl. No.</b>	<b>Name of the Equipment</b>	<b>Specification</b>	<b>Quantity</b>
1	Compound Microscope	At par with Olympus HSA Microscope	10
2	Light microscope with camera attachment		
3	ELISA plate reader	At par with Eppendorf AF2200	
4	Protein Gel apparatus with Power Pack	At par with BioRAD Mini-PROTEAN® Tetra Vertical Electrophoresis Cell with power pack	
5	DNA Gel apparatus with Power Pack	At par with BioRAD Mini-Sub® Cell GT Systems with power pack	
6	Microtome blade sharpener with honing stone		
7	Microtome (Rotary)		
8	Turbidity meter		
9	Compass		
10	Binoculars	At par with Nikon ACULON A211 10x50 Binoculars	1
11	Range Finders	At par with Nikon Aculon 6x20 Laser Rangefinder	1
12	Global Positioning System (handheld)	At par with Garmin GPSMAP 64S	1
13	SLR Cameras and lenses	Cannon / Nikon DSLRs with accessory lenses	1
14	Digital Movie Camera (HD)	At par with Sony HDR-AS300	1
15	Computer with Printer	4th Gen Ci5/ RAM 4GB DDR3/ 1TB HDD / 2GB Graph/23” Full HD IPS LED / Win8.1 / 10) (Lenovo / HP / Dell) Printer = Laser jet (HP / Cannon / Epson)	2
16	Haemocytometer	Good quality	10
17	Sahli's haemoglobinometer	Germany make	10
18	Sphygmomanometer	Mercury / Aneroid (clock style) type only	1

## Contingency Items (required for Zoology Department FY. 2018 – 19)

Sl. No.	Name of items	Quantity
1	Permanent Slides – as detailed below (good quality)	2 each
2	Unstained slides – as detailed below (good quality)	75 each
2	Museum specimens – as detailed below (good quality)	1 each
4	Live specimens for dissection – as detailed below	75 each
5	Others – as detailed below	

### 1. Permanent Slides:

- I. Whole mount of Euglena, Amoeba and Paramoecium, Binary fission and Conjugation in Paramoecium, life stages of Entamoebahistoltytica, Giardia intestinalis, Trypanosoma gambiense, Leishmaniadonovaniand Plasmodium vivax, Pediculushumanus(Head louse and Body louse), Xenopsyllacheopisand Cimexlectularius,
- II. Sycon (T.S. and L.S.), Ctenophore, stages of meiosis, male and female Ascaris, Stained blood film
- III. Whole mount of Primitive streak (13 and 18 hours), 21, 24, 28, 33, 36, 48, 72, and 96 hours of incubation (Hamilton and Hamburger stages) of chick embryo, sections of placenta ,

### 2. Unstained Slides

- I. Unstained slides for Feulgen reaction, PAS reaction, Mercurbromophenol blue/Fast Green,
- II. T.S. of Mammalian skin, Cartilage, Bone, Spinal cord, Nerve cell, spleen, thymus and lymph nodes, liver, kidney, testis, ovary, pancreas, adrenal, lung etc.

**3. Museum Specimens:** *Hyalonema, Euplectella, Spongilla, Obelia, Physalia, Millepora, Aurelia, Tubipora, Corallium, Alcyonium, Gorgonia, Metridium, Pennatula, Fungia, Meandrina, Madrepora, Ctenophore, Fasciola hepatica, Taeniasolium, Aphrodita, Nereis, Heteronereis, Sabella, Serpula, Chaetopterus, Pheretima, Limulus, Palamnaeus, Palaemon, Daphnia, Balanus, Sacculina, Cancer, Eupagurus, Scolopendra, Julus, Bombyx, Periplaneta*, termites and honey bees, *Peripatus, Chiton, Dentalium, Pila, Doris, Helix, Unio, Ostrea, Pinctada, Nautilus, Pentaceros/Asterias, Ophiura, Clypeaster, Echinus, Cucumaria and Antedon, Saccoglossus, Herdmania, Branchiostoma, Petromyzon, Myxine, Sphyrna, Pristis, Torpedo, Chimaera, Pristis, Gambusia, Heteropneustes, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetraodon, Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra, Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus, Stork, Owl/Falcon, Sun Bird, Jacanna, Duck, Sorex, Bat (Insectivorous and Frugivorous), Funambulus, Loris, Herpestes, Erinaceous, Carapace and plastron of turtle, various castes of *Apis, Camponotus, Odontotermes*, major insect pests of paddy, Mulberry silk moth, *Suncus Amoeba, Euglena, , Sycon, Euspongia,, Aurelia, Tubipora, Metridium*, Male and female *Ascarislumbricoides, Aphrodite, Limulus, Palamnaeus, Scolopendra, Julus, Periplaneta, Apis, Chiton, Dentalium, Pila, Unio, Pentaceros, Ophiura, Echinus, Antedon, Balanoglossus, Herdmania, Branchiostoma, Petromyzon, Torpedo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra, Bufo, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Vipera, Naja, Crocodylus, Gavialis, Passer, Psittacula, Alcedo, Sorex, Pteropus, Funambulus**

**4. Live specimens for dissection:** Earth worm, Cockroach, Mystus, Grass carp, Fowl head, Tilapia

### 5. Others:

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| A. Plankton Net                         | 2 pcs  |
| B. Paper chromatography chamber (glass) | 1 pcs  |
| C. Blotting paper                       | 12 pcs |