

DEPARTMENT OF ZOOLOGY
LESSION PLAN
SESSION 2023-24
SEMESTER – I

NAME OF TEACHER: DR. SUTAPA BISWAS

PAPER ALLOTTED: DS-1

Month	Paper	Content	No of classes
August 2023 08.08.2023	DS-1	Unit 6: Nematelminthes 8 Classes General characteristics and Classification up to classes Life cycle <i>Wuchereria bancrofti</i> Parasitic adaptations in helminths Origin and evolution of parasitic helminths	8
September 2023	DS-1	Life cycle, and pathogenicity of <i>Ascaris lumbricoides</i> , <i>Ancylostoma duodenale</i>	6
PUJA VACATION (19.10.2023 to 15.11.2023)			
November 2023	DS-1	Unit 1 Protista General characteristics of <i>Amoeba</i> , <i>Paramoecium</i> and <i>Euglena</i> . Evolution of symmetry and segmentation of Metazoa	4
December 2023	Non-Chordate Lab	Examination of pond water collected from different places for protistan diversity.	6
January 2024 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	8
16.04.2024		End Semester Examination	
Total Classes			32

NAME OF TEACHER: DR. NITHAR RANJAN MADHU

PAPER ALLOTTED: DS-1

Month	Paper	Content	No of classes
August 2023 08.08.2023	DS-1	Unit 5: Platyhelminthes General characteristics and Classification up to classes Life cycle and pathogenicity of <i>Fasciola hepatica</i> and <i>Taenia solium</i> .	6
September 2023	DS-1	Unit 4: Ctenophora General organisation and evolution	3

PUJA VACATION (19.10.2023 to 15.11.2023)			
November 2023	DS-1	Unit 6: Nematelminthes Classes General characteristics and Classification up to classes Life cycle, and pathogenicity of <i>Ascaris lumbricoides</i>, <i>Ancylostoma duodenale</i> and <i>Wuchereria bancrofti</i> Parasitic adaptations in helminths Origin and evolution of parasitic helminths	8
December 2023	Non-Chordate Lab	1. Study of adult <i>Fasciola hepatica</i>, <i>Taenia solium</i> and their life cycles (Slides/microphotographs) 2. Study of adult <i>Ascaris lumbricoides</i> and its life stages (Slides/micro-photographs) 3. Study of <i>Obelia</i>, <i>Physalia</i>, <i>Millepora</i>, <i>Aurelia</i>, <i>Tubipora</i>, <i>Corallium</i>, <i>Alcyonium</i>, <i>Gorgonia</i>, <i>Metridium</i>, <i>Pennatula</i>, <i>Fungia</i>, <i>Meandrina</i>, <i>Madrepora</i>.	12
January 2024 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	8
16.04.2024		End Semester Examination	
Total Classes			37

NAME OF TEACHER: DR. SOUMOSISH PAUL

PAPER ALLOTTED: DS-1, MA-1 (5)

Month	Paper	Content	No of classes
August 2023 08.08.2023	MA-1(5)	Unit 1 Protista General characters and classification of Subkingdom Protozoa up to Phylum (Levine et al., 1980); Locomotory Organelles and locomotion in Protozoa	4
September 2023	DS-1	Unit 6 Phylum Nematoda General characters and classification up to classes; life cycle and pathogenicity of <i>Ascaris</i> and <i>Wuchereria</i> Parasitic adaptation Origin and evolution	10
PUJA VACATION (19.10.2023 to 15.11.2023)			
November 2023	MA-1(5)	UNIT 2 PORIFERA General characters and classification up to classes; Canal System in <i>Sycon</i>.	2
December 2023	MA-1(5)	Unit 3 Cnidaria General characters and classification up to classes; Polymorphism in Hydrozoa	3

	MA-1(5)	Unit 4 Phylum Platyhelminthes General characters and classification up to classes; Life history of <i>Taenia solium</i>	3
	MA-1(5)	Unit 5 Phylum Nematoda General characters and classification up to classes; Life history of <i>Ascaris lumbricoides</i> and its parasitic adaptations	3
	MA -1P	<p>1. Spot identification of the following specimens: <i>Amoeba, Euglena, Plasmodium, Paramecium, Sycon, Euspongia,, Obelia, Physalia, Aurelia, Tubipora, Metridium, Taenia solium, Male and female Ascaris lumbricoides, Aphrodite, Nereis, Pheretima, Hirudinaria, Palaemon, Cancer, Limulus, Palamnaeus, Scolopendra, Julus, Periplaneta, Apis, Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus, Pentaceros, Ophiura, Echinus, Cucumaria and Antedon, Balanoglossus, Herdmania, Branchiostoma, Petromyzon, Sphyrna, Pristis, Torpedo, Labeo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra, Bufo, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Vipera, Naja, Crocodylus, Gavialis, Passer, Psittacula, Alcedo, Sorex, Pteropus, Funambulus, Suncus</i></p> <p>2. Study of the following permanent slides: Transverse section of male and female <i>Ascaris</i></p> <p>3. Identification of poisonous and non-poisonous snakes</p> <p>4. An “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.</p>	20
January 2024 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	5
16.04.2024		End Semester Examination	
Total Classes			50

NAME OF TEACHER: DR. PHULJHURI CHAKRABORTY

PAPER ALLOTTED: DS-1

Month	Paper	Content	No of classes
August 2023 08.08.2023	DS-1	Unit 1: Protista, Parazoa and Metazoa classes Life cycle and pathogenicity of <i>Entamoeba histolytica, Leishmania donovani, Entamoeba histolytica and Plasmodium vivax</i> Locomotion and Reproduction in Protista	6
September 2023	DS-1	Unit 1: Protista, Parazoa and Metazoa classes General characteristics and Classification up to classes Study of <i>Euglena,</i>	6

		Amoeba and Paramoecium Life cycle and pathogenicity of Giardia intestinalis,	
	PUJA VACATION (19.10.2023 to 15.11.2023)		
November 2023	DS-1	Unit 1: Protista, Parazoa and Metazoa classes General characteristics and Classification up to classes Study of Euglena, Amoeba and Paramoecium Life cycle and pathogenicity of Giardia intestinalis, Leishmania donovani, Entamoeba histolytica and Plasmodium vivax Locomotion and Reproduction in Protista	2
December 2023	DS-1	Unit 3: Cnidaria General characteristics and Classification up to classes Metagenesis in Obelia Polymorphism in Cnidaria Corals and coral reefs: types, formation, distribution, conservation significance	6
	Non-Chordate Lab	1. Study of whole mount of Euglena, Amoeba and Paramoecium, Binary fission and Conjugation in Paramoecium 2. Examination of freshwater pond water collected from different places for diversity of protists in it. 5. One specimen/slide of any Ctenophore 6. Study of adult Fasciola hepatica, Taenia solium and their life cycles (Slides/microphotographs)	12
January 2024 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	8
16.04.2024		End Semester Examination	
Total Classes			40

NAME OF TEACHER: GOUTAM BISWAS

PAPER ALLOTTED: DS-1, SECZOO 1

Month	Paper	Content	No of classes
August 2023 08.08.2023	DS-1	UNIT 2: Porifera General organization and classification upto classes Canal System and spicules in sponges	5
September 2023	SECZOO1	Unit2 Biology of aquarium Fishes Common character and sexual dimorphism of fresh water and marine aquarium fishes.	6
	PUJA VACATION (19.10.2023 to 15.11.2023)		

November 2023	SECZOO1	Unit2 Biology of aquarium Fishes Common character and sexual dimorphism of fresh water and marine aquarium fishes.	6
December 2023	SECZOO1	Unit 5: maintenance of aquarium General aquarium maintenance – budget for setting up an aquarium fish farm as a cottage industry	6
January 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	8
16.04.2024		End Semester Examination	
Total Classes			31

NAME OF TEACHER: DIPTAK CHAKROBORTY

PAPER ALLOTTED: MA-1 (5)

Month	Paper	Content	No of classes
August 2023 08.08.2023	MA-1(5)	Unit-8 Phylum Mollusca General characters and classification up to classes; Respiration in Pila	3
September 2023	MA-1(5)	Unit-16 Mammals Classification up to Subclasses (Young, 1981); Origin & distribution of Cranial nerves in Cavia	3
PUJA VACATION (19.10.2023 to 15.11.2023)			
November 2023	MA-1(5)	Unit-13 Amphibia General features and Classification up to living orders (Duellman & Trueb, 1986); Metamorphosis in Toad	3
December 2023	MA-1(5)	Unit-14 Reptiles General features and Classification up to living Subclass (Young, 1981); Poisonous and nonpoisonous snakes, Biting mechanism in snakes	3
	MA-1(5)	Unit-15 Aves General features and Classification up to orders (Young, 1981); Flight adaptations in birds	3
	MA -1P	1. Spot identification of the following specimens: Amoeba, Euglena, Plasmodium, Paramecium, Sycon, Euspongia,, Obelia, Physalia, Aurelia, Tubipora, Metridium, Taenia solium, Male and female Ascaris lumbricoides, Aphrodite, Nereis, Pheretima, Hirudinaria, Palaemon, Cancer, Limulus, Palamnaeus, Scolopendra, Julus, Periplaneta, Apis, Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus, Pentaceros, Ophiura, Echinus, Cucumaria and Antedon, Balanoglossus, Herdmania, Branchiostoma, Petromyzon, Sphyrna, Pristis, Torpedo, Labeo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra,	20

		Bufo, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Vipera, Naja, Crocodylus, Gavialis, Passer, Psittacula, Alcedo, Sorex, Pteropus, Funambulus, Suncus 2. Study of the following permanent slides: Transverse section of male and female Ascaris 3. Identification of poisonous and non-poisonous snakes 4. An “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.	
January 18.01.2024 - 20.01.2024		Internal Examination & Class for Slow Learners	8
16.04.2024		End Semester Examination	
Total Classes			43

NAME OF TEACHER: SHRINKA GHOSH

PAPER ALLOTTED: SECZOO 1, MA-I(5)

Month	Paper	Content	No of classes
August 2023 08.08.2023	SECZOO1	UNIT1: introduction to aquarium fish keeping The potential scope of aquarium fish industry as a cottage industry, exotic and endemic species of aquarium fishes, problems of releasing aquarium fishes into natural habitats.	6
September 2023	SECZOO1	UNIT1: introduction to aquarium fish keeping The potential scope of aquarium fish industry as a cottage industry, exotic and endemic species of aquarium fishes, problems of releasing aquarium fishes into natural habitats. UNIT 4: Fish Transportation: live fish transport – fish handling, packing, forwarding technique.	12
		PUJA VACATION (19.10.2023 to 15.11.2023)	
November 2023	SECZOO1	UNIT 3: food and feeding of aquarium fishes Use of live fish feed organism, preparation and composition of formulated fish feeds, aquarium fish as larval predator.	10
	MA-I(5)	Unit 7 Phylum Arthropoda General characters and classification up to classes; Vision in insect, Metamorphosis in Insects	5
December 2023	MA-I(5)	Unit-9 Phylum Echinodermata General characters and classification up to classes; Water-vascular system in Asterias	4
	MA-I(5)	Unit-11 Agnatha General features and classification up to classes (Young, 1981)	2
	MA 1P	1. Spot identification of the following specimens: Amoeba, Euglena, Plasmodium, Paramecium, Sycon, Euspongia,, Obelia, Physalia, Aurelia, Tubipora, Metridium, Taenia solium, Male and female Ascaris lumbricoides, Aphrodite, Nereis, Pheretima,	12

		<p>Hirudinaria, Palaemon, Cancer, Limulus, Palamnaeus, Scolopendra, Julus, Periplaneta, Apis, Chiton, Dentalium, Pila, Unio, Loligo, Sepia, Octopus, Pentaceros, Ophiura, Echinus, Cucumaria and Antedon, Balanoglossus, Herdmania, Branchiostoma, Petromyzon, Sphyrna, Pristis, Torpedo, Labeo, Exocoetus, Anguilla, Ichthyophis/Ureotyphlus, Salamandra, Bufo, Hyla, Chelone, Hemidactylus, Chamaeleon, Draco, Vipera, Naja, Crocodylus, Gavialis, Passer, Psittacula, Alcedo, Sorex, Pteropus, Funambulus, Suncus</p> <p>2. Study of the following permanent slides: Transverse section of male and female Ascaris</p> <p>3. Identification of poisonous and non-poisonous snakes</p> <p>4. An “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.</p>	
<p>January 18.01.2024 - 20.01.2024</p>		<p>Internal Examination & Class for Slow Learners</p>	<p>4</p>
<p>16.04.2024</p>		<p>End Semester Examination</p>	
<p>Total Classes</p>			<p>55</p>