



Government General Degree College Mohanpur
Vill- Srirampur, P. O- Siyalsai, Dist- Paschim Medinipur
West Bengal- 721436

Department of Physiology

Session 2018-19

Physiology General (CBCS pattern)

Semester	Period of Semester	Time of University Examination	Course Code	Paper	Name of the Faculty	Brief Description of the Topic	Teaching hour per week
I	July to December	End of December	CC1 [DSC-1A]	DSC1AT (Theory)	Prasenjit Chaudhuri	1. Cellular Physiology 2. Biophysical Principles 3. Biochemistry 4. Digestive system 5. Metabolism	4
				DSC1AP (Practical)	Prasenjit Chaudhuri	1. Fresh tissue experiments 2. Identification of permanent slides:	4
II	January to June	End of June	CC4 [DSC-1B]	DSC1BT (Theory)	Prasenjit Chaudhuri	1. Blood and body fluid 2. Immune System 3. Cardiovascular System 4. Respiratory System	4
				DSC1BP (Practical)	Prasenjit Chaudhuri	1. Haematology 2. Human Experiment	4

Physiology General (3 Tier Examination Pattern)

Part	Period of Semester	Time of University Examination	Paper	Name of the Faculty	Brief Description of the Topic	Total Lectures
II	July to June	End of June	Paper II (Theory)	Prasenjit Chaudhuri	1. Nerve-Muscle Physiology 2. Nervous System 3. Skin and Regulation of Body Temperature 4. Sensory Physiology 5. Endocrine System 6. Reproductive Physiology	110
			Paper III (Practical)	Prasenjit Chaudhuri	1. Histology 2. Biochemistry 3. Experimental Physiology 4. Human Experiments	100

					5. Diet Survey Report 6. Excursion	
III	July to June	End of June	Paper IVA (Theory)	Prasenjit Chaudhuri	1. Application of Physiology 2. Clinical Biochemistry and Molecular Biology 3. Environmental Physiology 4. Microbiology and Immunology 5. Work and Sports Physiology 6. Biostatistics and Modern Instrumentation (Biomedical) & 7. Basic Concepts of Computer 8. Community Health Management	70
			Paper IVB (Practical)	Prasenjit Chaudhuri	1. Haematological Tests 2. Clinical Pathology 3. Human Experiments	30

Session 2019-20

Physiology General (CBCS pattern)

Semester	Period of Semester	Time of University Examination	Course Code	Paper	Name of the Faculty	Brief Description of the Topic	Teaching hour per week
I	July to December	End of December	CC1 [DSC-1A]	DSC1AT (Theory)	Prasenjit Chaudhuri	1 Biophysical Principles 2 Biochemistry 3 Metabolism	2
					Dakshayani Mahapatra	1 Cellular Physiology 2 Digestive system	2
				DSC1AP (Practical)	Prasenjit Chaudhuri	Identification of permanent slides:	2
					Dakshayani Mahapatra	Fresh tissue experiments	2
II	January to June	End of June	CC4 [DSC-1B]	DSC1BT (Theory)	Prasenjit Chaudhuri	1. Blood and body fluid 2. Immune System	2
					Dakshayani Mahapatra	1. Cardiovascular System 2. Respiratory System	2

				DSC1BP (Practical)	Prasenjit Chaudhuri	Haematology	2
					Dakshayani Mahapatra	Human Experiment	2
III	July to December	End of December	CC3 [DSC1C]	DSC-1CT (Theory)	Prasenjit Chaudhuri	Nervous system	2
					Dakshayani Mahapatra	1. Nerve –Muscle Physiology 2. Skin and Body Temperature Regulation	2
				DSC-1CP (Practical)	Prasenjit Chaudhuri	1. Staining of Node(s) of Ranvier (AgNO ₃). 2. Staining of skeletal and cardiac muscles by Methylene Blue stain 3. Reaction time by stick drop test 4. Short term memory test (shape, picture word).	2
					Dakshayani Mahapatra	1. Measurement of grip strength 2. Recording of body temperature 3. Experiments on superficial (plantar) and deep (knee jerk) reflex 4. Two point discrimination test.	2
IV	January to June	End of June		DSC-1DT (Theory)	Prasenjit Chaudhuri	Sensory Physiology Endocrine Physiology	2
					Dakshayani Mahapatra	Reproductive System Renal Physiology	2
				DSC-1DP (Practical)	Prasenjit Chaudhuri	1. Silver nitrate preparation of corneal cell space. 2. Identification of normal and abnormal constituents of urine. 3. Tests for Urinary deposits. 4. Estimation of albumin in urine. 5. Detection of specific gravity of urine.	2

				Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Staining and identification of kidney and ureters 2. Study of estrous cycle. 3. Determination of visual acuity by Snellen's chart / Landolt's chart 4. Determination of colour blindness by Ishihara chart. 5. Exploration of conductive and perceptive deafness by tuning fork method. 6. Sperm count and sperm motility in rat. 	2
			SEC2T (Instrumentation Techniques in Biology)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Microscopy 2. Staining Method 3. Optical Method 	1
				Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Chromatography 2. Biotechnology and Immunological techniques 	1

Physiology General (3 Tier Examination Pattern)

Part	Period of Semester	Time of University Examination	Paper	Name of the Faculty	Brief Description of the Topic	Total Lectures
III	July to June	End of June	Paper IVA (Theory)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Application of Physiology 2. Clinical Biochemistry and Molecular Biology 3. Work and Sports Physiology 4. Biostatistics and Modern Instrumentation (Biomedical) & 5. Community Health Management 	50
				Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Environmental Physiology 2. Microbiology and Immunology 3. Basic Concepts of Computer 	20
			Paper IVB (Practical)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Haematological Tests 2. Clinical Pathology 	20
				Dakshayani Mahapatra	Human Experiments	10

Session 2020-21

Physiology General (CBCS pattern)

Semester	Period of Semester	Time of University Examination	Course Code	Paper	Name of the Faculty	Brief Description of the Topic	Teaching hour per week
I	July to December	End of December	CC1 [DSC-1A]	DSC1AT (Theory)	Prasenjit Chaudhuri	1 Biophysical Principles 2 Biochemistry 3 Metabolism	2
					Dakshayani Mahapatra	1 Cellular Physiology 2 Digestive system	2
				DSC1AP (Practical)	Prasenjit Chaudhuri	Identification of permanent slides:	2
					Dakshayani Mahapatra	Fresh tissue experiments	2
II	January to June	End of June	CC4 [DSC-1B]	DSC1BT (Theory)	Prasenjit Chaudhuri	1. Blood and body fluid 2. Immune System	2
					Dakshayani Mahapatra	1. Cardiovascular System 2. Respiratory System	2
				DSC1BP (Practical)	Prasenjit Chaudhuri	Haematology	2
					Dakshayani Mahapatra	Human Experiment	2
III	July to December	End of December	CC3 [DSC1C]	DSC-1CT (Theory)	Prasenjit Chaudhuri	Nervous system	2
					Dakshayani Mahapatra	1. Nerve –Muscle Physiology 2. Skin and Body Temperature Regulation	2
				DSC-1CP (Practical)	Prasenjit Chaudhuri	1. Staining of Node(s) of Ranvier (AgNO ₃). 2. Staining of skeletal and cardiac muscles by Methylene Blue stain 3. Reaction time by stick drop test 4. Short term memory test (shape, picture word).	2

					Dakshayani Mahapatra	5. Measurement of grip strength 6. Recording of body temperature 7. Experiments on superficial (plantar) and deep (knee jerk) reflex 8. Two point discrimination test.	2
IV	January to June	End of June			Prasenjit Chaudhuri	Sensory Physiology Endocrine Physiology	2
					Dakshayani Mahapatra	Reproductive System Renal Physiology	2
				DSC-1DT (Theory)	Prasenjit Chaudhuri	1. Silver nitrate preparation of corneal cell space. 2. Identification of normal and abnormal constituents of urine. 3. Tests for Urinary deposits. 4. Estimation of albumin in urine. 5. Detection of specific gravity of urine.	2
					Dakshayani Mahapatra	1. Staining and identification of kidney and ureters 2. Study of estrous cycle. 3. Determination of visual acuity by Snellen's chart / Landolt's chart 4. Determination of colour blindness by Ishihara chart. 5. Exploration of conductive and perceptive deafness by tuning fork method. 6. Sperm count and sperm motility in rat.	2
			SEC2 (Instrumentation Techniques in Biology)	DSC-1DP (Practical)	Prasenjit Chaudhuri	1. Microscopy 2. Staining Method 3. Optical Method	1
					Dakshayani Mahapatra	1. Chromatography 2. Biotechnology and Immunological techniques	1
V	July to December	End of December	DSE-1A [Community Nutrition and	DSE 1AT (Theory)	Prasenjit Chaudhuri	1. Socio-ecology of Nutrition 2. Epidemiology 3. Population problem	2

VI	January to June	End of June	Public Health]		Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Basic concept of Nutrition 2. Food guide 3. Diet survey 4. Malnutrition 	2
				DSE 1AP (Practical)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Quantitative estimation of glucose, sucrose by Benedict's method 2. Estimation of lactose from milk by Benedict's methods. 3. Estimation of amino nitrogen through formol titration methods. 4. Field Survey Report 	2
					Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Estimation of Chloride by Mohr's methods. 2. Qualitative analysis of pulse, rice, milk to test the presence of carbohydrates, protein, fat 3. Qualitative identification of lipids and cholesterol. 4. Qualitative assessment of noise by sound level meter. 	2
			SEC-3 [Maternal and Child Nutrition]	SEC-3 [Maternal and Child Nutrition]	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Unit III- Infant and young child care and Malnutrition 2. Unit IV- Maternal and Child care policies and programme. 	1
					Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Unit I- Nutrition during Pregnancy 2. Unit II- Breastfeeding and Nutrition of infant 	1
			DSE-1B [Developmental aspects of embryo and foetus]	DSE-1BT [Developmental aspects of embryo and foetus]	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. General concepts and Stem cell 2. Gametogenesis 3. Fertilization in mammals. 4. Cleavage 	2
				Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Blastula 2. Morphogenetic movements 3. Gastrulation 4. Organogenesis : Development of eye 	2	
			DSE-1BP (Practical)	Prasenjit Chaudhuri	Hematoxylin and Eosin staining of testicular, ovarian tissue sections.	2	

					Dakshayani Mahapatra	1. Identification of spermatocytes, spermatids, Graafian follicle, Corpus Luteum. 2. Demonstration of preserved mammalian embryo.	2
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Session 2021-22

Physiology General (CBCS pattern)

Semester	Period of Semester	Time of University Examination	Course Code	Paper	Name of the Faculty	Brief Description of the Topic	Teaching hour per week
I	July to December	End of December	CC1 [DSC-1A]	DSC1AT (Theory)	Prasenjit Chaudhuri	1 Biophysical Principles 2 Biochemistry 3 Metabolism	2
					Dakshayani Mahapatra	1 Cellular Physiology 2 Digestive system	2
				DSC1AP (Practical)	Prasenjit Chaudhuri	Identification of permanent slides:	2
					Dakshayani Mahapatra	Fresh tissue experiments	2
II	January to June	End of June	CC4 [DSC-1B]	DSC1BT (Theory)	Prasenjit Chaudhuri	1. Blood and body fluid 2. Immune System	2
					Dakshayani Mahapatra	1. Cardiovascular System 2. Respiratory System	2
				DSC1BP (Practical)	Prasenjit Chaudhuri	Haematology	2
					Dakshayani Mahapatra	Human Experiment	2
III	July to December	End of December	CC3 [DSC1C]	DSC-1CT (Theory)	Prasenjit Chaudhuri	Nervous system	2
					Dakshayani Mahapatra	1. Nerve –Muscle Physiology 2. Skin and Body Temperature Regulation	2

IV	January to June			DSC-1CP (Practical)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Staining of Node(s) of Ranvier (AgNO₃). 2. Staining of skeletal and cardiac muscles by Methylene Blue stain 3. Reaction time by stick drop test 4. Short term memory test (shape, picture word). 	2
					Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Measurement of grip strength 2. Recording of body temperature 3. Experiments on superficial (plantar) and deep (knee jerk) reflex 4. Two point discrimination test. 	2
		End of June		DSC-1DT (Theory)	Prasenjit Chaudhuri	Sensory Physiology Endocrine Physiology	2
				Dakshayani Mahapatra	Reproductive System Renal Physiology	2	
				DSC-1DP (Practical)	Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Silver nitrate preparation of corneal cell space. 2. Identification of normal and abnormal constituents of urine. 3. Tests for Urinary deposits. 4. Estimation of albumin in urine. 5. Detection of specific gravity of urine. 	2
				Dakshayani Mahapatra	<ol style="list-style-type: none"> 1. Staining and identification of kidney and ureters 2. Study of estrous cycle. 3. Determination of visual acuity by Snellen's chart / Landolt's chart 4. Determination of colour blindness by Ishihara chart. 5. Exploration of conductive and perceptive deafness by tuning fork method. 6. Sperm count and sperm motility in rat. 	2	
			SEC2 (Instrumentation)		Prasenjit Chaudhuri	<ol style="list-style-type: none"> 1. Microscopy 2. Staining Method 3. Optical Method 	1

			Techniques in Biology)		Dakshayani Mahapatra	3. Chromatography 4. Biotechnology and Immunological techniques	1
V	July to Decemberr	End of December	DSE-1A [Community Nutrition and Public Health]	DSE 1AT (Theory)	Prasenjit Chaudhuri	1. Socio-ecology of Nutrition 2. Epidemiology 3. Population problem	2
					Dakshayani Mahapatra	1. Basic concept of Nutrition 2. Food guide 3. Diet survey 4. Malnutrition	2
				DSE 1AP (Practical)	Prasenjit Chaudhuri	1. Quantitative estimation of glucose, sucrose by Benedict's method 2. Estimation of lactose from milk by Benedict's methods. 3. Estimation of amino nitrogen through formol titration methods. 4. Field Survey Report	2
					Dakshayani Mahapatra	1. Estimation of Chloride by Mohr's methods. 2. Qualitative analysis of pulse, rice, milk to test the presence of carbohydrates, protein, fat 3. Qualitative identification of lipids and cholesterol. 4. Qualitative assessment of noise by sound level meter.	2
		SEC-3 [Maternal and Child Nutrition]	SEC-3 [Maternal and Child Nutrition]	Prasenjit Chaudhuri	1. Unit III- Infant and young child care and Malnutrition 2. Unit IV- Maternal and Child care policies and programme.	1	
				Dakshayani Mahapatra	1. Unit I- Nutrition during Pregnancy 2. Unit II- Breastfeeding and Nutrition of infant	1	
VI	January to June	End of June	DSE-1B [Developmental aspects of	DSE-1BT [Developmental aspects of embryo	Prasenjit Chaudhuri	1. General concepts and Stem cell 2. Gametogenesis 3. Fertilization in mammals. 4. Cleavage	2

			embryo and foetus]	and foetus]	Dakshayani Mahapatra	1. Blastula 2. Morphogenetic movements 3. Gastrulation 4. Organogenesis : Development of eye	2
				DSE-1BP (Practical)	Prasenjit Chaudhuri	Hematoxylin and Eosin staining of testicular, ovarian tissue sections.	2
					Dakshayani Mahapatra	1. Identification of spermatocytes, spermatids, Graafian follicle, Corpus Luteum. 2. Demonstration of preserved mammalian embryo.	2

Session 2022-23

Physiology General (CBCS pattern)

Semester	Period of Semester	Time of University Examination	Course Code	Paper	Name of the Faculty	Brief Description of the Topic	Teaching hour per week
I	July to December	End of December	CC1 [DSC-1A]	DSC1AT (Theory)	Prasenjit Chaudhuri	1 Biophysical Principles 2 Biochemistry 3 Metabolism	2
					Dakshayani Mahapatra	1 Cellular Physiology 2 Digestive system	2
				DSC1AP (Practical)	Prasenjit Chaudhuri	Identification of permanent slides:	2
					Dakshayani Mahapatra	Fresh tissue experiments	2
II	January to June	End of June	CC4 [DSC-1B]	DSC1BT (Theory)	Prasenjit Chaudhuri	1. Blood and body fluid 2. Immune System	2
					Dakshayani Mahapatra	1. Cardiovascular System 2. Respiratory System	2
				DSC1BP (Practical)	Prasenjit Chaudhuri	Haematology	2
					Dakshayani Mahapatra	Human Experiment	2

III	July to December	End of December	CC3 [DSC1C]	DSC-1CT (Theory)	Prasenjit Chaudhuri	Nervous system	2
					Dakshayani Mahapatra	1. Nerve –Muscle Physiology 2. Skin and Body Temperature Regulation	2
				DSC-1CP (Practical)	Prasenjit Chaudhuri	1. Staining of Node(s) of Ranvier (AgNO ₃). 2. Staining of skeletal and cardiac muscles by Methylene Blue stain 3. Reaction time by stick drop test 4. Short term memory test (shape, picture word).	2
					Dakshayani Mahapatra	1. Measurement of grip strength 2. Recording of body temperature 3. Experiments on superficial (plantar) and deep (knee jerk) reflex 4. Two point discrimination test.	2
IV	January to June	End of June		DSC-1DT (Theory)	Prasenjit Chaudhuri	Sensory Physiology Endocrine Physiology	2
					Dakshayani Mahapatra	Reproductive System Renal Physiology	2
				DSC-1D (Practical)	Prasenjit Chaudhuri	1. Silver nitrate preparation of corneal cell space. 2. Identification of normal and abnormal constituents of urine. 3. Tests for Urinary deposits. 4. Estimation of albumin in urine. 5. Detection of specific gravity of urine.	2
					Dakshayani Mahapatra	1. Staining and identification of kidney and ureters 2. Study of estrous cycle. 3. Determination of visual acuity by Snellen's chart / Landolt's chart 4. Determination of colour blindness by Ishihara chart. 5. Exploration of conductive and perceptive deafness by tuning fork method. 6. Sperm count and sperm motility in rat.	2

			SEC2 (Instrumentation Techniques in Biology)		Prasenjit Chaudhuri	4. Microscopy 5. Staining Method 6. Optical Method	1
					Dakshayani Mahapatra	1. Chromatography 2. Biotechnology and Immunological techniques	1
V	July to December	End of December	DSE-1A [Community Nutrition and Public Health]	DSE 1AT (Theory)	Prasenjit Chaudhuri	1. Socio-ecology of Nutrition 2. Epidemiology 3. Population problem	2
					Dakshayani Mahapatra	1. Basic concept of Nutrition 2. Food guide 3. Diet survey 4. Malnutrition	2
				DSE 1AP (Practical)	Prasenjit Chaudhuri	1. Quantitative estimation of glucose, sucrose by Benedict's method 2. Estimation of lactose from milk by Benedict's methods. 3. Estimation of amino nitrogen through formol titration methods. 4. Field Survey Report	2
				Dakshayani Mahapatra	1. Estimation of Chloride by Mohr's methods. 2. Qualitative analysis of pulse, rice, milk to test the presence of carbohydrates, protein, fat 3. Qualitative identification of lipids and cholesterol. 4. Qualitative assessment of noise by sound level meter.	2	
		SEC-3 [Maternal and Child Nutrition]	SEC-3 [Maternal and Child Nutrition]	Prasenjit Chaudhuri	1. Unit III- Infant and young child care and Malnutrition 2. Unit IV- Maternal and Child care policies and programme.	1	
		Dakshayani Mahapatra	1. Unit I- Nutrition during Pregnancy 2. Unit II- Breastfeeding and Nutrition of infant	1			
VI	January to June	End of June	DSE-1B [Developmental aspects of	DSE-1BT [Developmental aspects of embryo	Prasenjit Chaudhuri	1. General concepts and Stem cell 2. Gametogenesis 3. Fertilization in mammals. 4. Cleavage	2

			embryo and foetus]	and foetus]	Dakshayani Mahapatra	5. Blastula 6. Morphogenetic movements 7. Gastrulation 8. Organogenesis : Development of eye	2
					Prasenjit Chaudhuri	Hematoxylin and Eosin staining of testicular, ovarian tissue sections.	2
					Dakshayani Mahapatra	1. Identification of spermatocytes, spermatids, Graafian follicle, Corpus Luteum. 2. Demonstration of preserved mammalian embryo.	2