

**Timetable
Group A, B & C**

Week 1 (25TH February 2019)

Theme: Cell, cell organelles & cell environment

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Functional organization of Human body & cell membrane (P) Venue: Lecture hall 1	Lecture: Cell organelles & their functions (P) Venue: Lecture hall 1 Instructor:	Lecture: Cell organelles & their functions continued... (P) Venue: Lecture hall 1	Lecture: Homeostasis & body fluid compartments (P) Venue: Lecture hall 1	Lecture: Control systems in the body (P) Venue: Lecture hall 1
09:35 – 10:35	Lecture: Cell cycle & replication (A) Venue: Lecture hall 1	Lecture: pH and buffers & MM Equation (B) Venue: Lecture hall 1 Instructor:	Lecture: Carbohydrates – types & biomedical importance (B) Venue: Lecture hall 1 Instructor:	Lecture: Monosaccharides – derivatives & biomedical importance (B) Venue: Lecture hall 1 Instructor:	Lecture: Disaccharides – biomedical importance (B) Venue: Lecture hall 1
10:45 – 12:45	Self-study				
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group A: Histology lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Histology lab Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Histology lab	Group A: Self-study Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Self-study

Histology lab: Microscope & its parts & stains used in histology

Group D & E

Week 1 (25TH February 2019)

Theme: Cell, cell organelles & cell environment

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	Lecture: Cell cycle & replication (A) Venue: Lecture hall 2	Lecture: pH and buffers & MM Equation (B) Venue: Lecture hall 2 Instructor:	Lecture: Carbohydrates – types & biomedical importance (B) Venue: Lecture hall 2 Instructor:	Lecture: Monosaccharides – derivatives & biomedical importance (B) Venue: Lecture hall 2 Instructor:	Lecture: Disaccharides – biomedical importance (B) Venue: Lecture hall 2
09.35 – 10.35	Lecture: Functional organization of Human body & cell membrane (P) Venue: Lecture hall 2	Lecture: Cell organelles & their functions (P) Venue: Lecture hall 2 Instructor:	Lecture: Cell organelles & their functions continued... (P) Venue: Lecture hall 2	Lecture: Homeostasis & body fluid compartments (P) Venue: Lecture hall 2	Lecture: Control systems in the body (P) Venue: Lecture hall 2
10.45 – 12.45	Self-study				
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group D: Self-study Group E: Self-study	Group D: Self-study Group E: Self-study	Group D: Self-study Group E: Self-study	Group D: Histology lab Group E: Self-study	Group D: Self-study Group E: Histology lab

Histology lab: Microscope & its parts & stains used in histology

Group A, B & C

Week 2 (4th March 2019)

Theme: Macromolecules: Carbohydrates

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Basic tissues: Epithelium I (A) Venue: Lecture hall 1 Instructor:	Lecture: Basic tissues – Epithelium II (A) Venue: Lecture hall 1 Instructor:	Lecture: Exocrine glands Venue: Lecture hall 1 Instructor:	Lecture: Basic tissues – Connective tissue (A) Venue: Lecture hall 1 Instructor:	Lecture: Basic tissues – Muscular tissues (A) Venue: Lecture hall 1 Instructor:
09:35 – 10:35	Lecture: Polysaccharides – biomedical importance (B) Venue: Lecture hall 1 Instructor:	Lecture: Proteoglycans & Glycoproteins (B) Venue: Lecture hall 1 Instructor:	Lecture: Amino acids – structure, properties & functions (B) Venue: Lecture hall 1	Lecture: Amino acid pool – classification (B) Venue: Lecture hall 1	Lecture: Proteins: physiochemical properties, classification & importance (B) Venue: Lecture hall 1
10:45 – 12:45	Group A: Physiology SGD – Physiology lab Group B: Self-study Group C: Biochemistry SGD – Biochemistry lab	Group A: Anatomy SGD – Anatomy lab Group B: Physiology SGD – Physiology lab Group C: Self-study	Group A: Self-study Group B: Anatomy SGD – Anatomy lab Group C: Physiology SGD – Physiology lab	Group A: Biochemistry SGD – Biochemistry lab Group B: Self-study Group C: Anatomy SGD – Anatomy lab	Group A: Self-study Group B: Biochemistry SGD – Biochemistry lab Group C: Self-study
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group A: Histology lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Histology lab Group C: Self-study	Group A: Biochemistry lab Group B: Self-study Group C: Histology lab	Group A: Self-study Group B: Biochemistry lab Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Biochemistry lab

Histology lab: Basic tissues – Simple epithelium

Biochemistry lab: Experiments related to carbohydrates

Group D & E

Week 2 (4th March 2019)

Theme: Macromolecules: Carbohydrates

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	Lecture: Polysaccharides – biomedical importance (B) Venue: Lecture hall 2 Instructor:	Lecture: Proteoglycans & Glycoproteins (B) Venue: Lecture hall 2 Instructor:	Lecture: Amino acids – structure, properties & functions (B) Venue: Lecture hall 2	Lecture: Amino acid pool – classification (B) Venue: Lecture hall 2	Lecture: Proteins: physiochemical properties, classification & importance (B) Venue: Lecture hall 2
09.35 – 10.35	Lecture: Basic tissues: Epithelium I (A) Venue: Lecture hall 2 Instructor:	Lecture: Basic tissues – Epithelium II (A) Venue: Lecture hall 2 Instructor:	Lecture: Exocrine glands Venue: Lecture hall 2 Instructor:	Lecture: Basic tissues – Connective tissue (A) Venue: Lecture hall 2 Instructor:	Lecture: Basic tissues – Muscular tissues (A) Venue: Lecture hall 2 Instructor:
10.45 – 12.45	Group D: Self-study Group E: Anatomy SGD – Anatomy lab	Group D: Biochemistry SGD – Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry SGD – Biochemistry lab	Group D: Physiology SGD – Physiology lab Group E: Self-study	Group D: Anatomy SGD – Anatomy lab Group E: Physiology SGD – Physiology lab
12.46 - 01.10	Lunch/ Prayer Break				
01.15 – 03.15	Group D: Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry lab	Group D: Self-study Group E: Self-study	Group D: Histology lab Group E: Self-study	Group D: Self-study Group E: Histology lab

Histology lab: Basic tissues – Simple epithelium**Biochemistry lab:** Experiments related to carbohydrates

Group A, B & C

Theme: Macromolecules – Proteins & amino acids

Week 3 (11th March 2019)

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Basic tissues – Nerve & supporting cells in CNS & PNS (A) Venue: Lecture hall 1	Lecture: Introduction to development & Oogenesis (A) Venue: Lecture hall 1 Instructor:	Lecture: Spermatogenesis (A) Venue: Lecture hall 1 Instructor	Lecture: Ovulation (A) Venue: Lecture hall 1 Instructor: Dr. Zoheb Memon	Lecture: Fertilization (A) Venue: Lecture hall 1 Instructor
09:35 – 10:35	Lecture: Protein’s biochemical importance – pH maintenance & Immunoglobulins (B) Venue: Lecture hall 1	Lecture: Protein Biochemical importance: Plasma proteins (B) Venue: Lecture hall 1	Lecture: Lipids: Overview & Biomedical importance (B) Venue: Lecture hall 1	Lecture: Classification of lipids: Simple lipids & their biomedical importance (B) Venue: Lecture hall 1	Lecture: Compound lipids and their biomedical importance (B) Venue: Lecture hall 1
10:45 – 12:45	Group A: Physiology SGD – Physiology lab Group B: Self-study Group C: Biochemistry SGD – Biochemistry lab	Group A: Anatomy SGD – Anatomy lab Group B: Physiology SGD – Physiology lab Group C: Self-study	Group A: Self-study Group B: Anatomy SGD – Anatomy lab Group C: Physiology SGD – Physiology lab	Group A: Biochemistry SGD – Biochemistry lab Group B: Self-study Group C: Anatomy SGD – Anatomy lab	Group A: Self-study Group B: Biochemistry SGD – Biochemistry lab Group C: Self-study
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group A: Histology lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Histology lab Group C: Self-study	Group A: Biochemistry lab Group B: Self-study Group C: Histology lab	Group A: Self-study Group B: Biochemistry lab Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Biochemistry lab

Histology lab: Basic tissues – Stratified epithelium

Biochemistry lab: Experiments related to amino acids & proteins

Group D & E

Theme: Macromolecules – Proteins & amino acids

Week 3 (11th March 2019)

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Protein's biochemical importance – pH maintenance & Immunoglobulins (B) Venue: Lecture hall 2	Lecture: Protein Biochemical importance: Plasma proteins (B) Venue: Lecture hall 2	Lecture: Lipids: Overview & Biomedical importance (B) Venue: Lecture hall 2	Lecture: Classification of lipids: Simple lipids & their biomedical importance (B) Venue: Lecture hall 2	Lecture: Compound lipids and their biomedical importance (B) Venue: Lecture hall 1
09:35 – 10:35	Lecture: Basic tissues – Nerve & supporting cells in CNS & PNS (A) Venue: Lecture hall 2	Lecture: Introduction to development & Oogenesis (A) Venue: Lecture hall 2 Instructor:	Lecture: Spermatogenesis (A) Venue: Lecture hall 2 Instructor:	Lecture: Ovulation (A) Venue: Lecture hall 2	Lecture: Fertilization (A) Venue: Lecture hall 2 Instructor:
10:45 – 12:45	Group D: Self-study Group E: Anatomy SGD – Anatomy lab	Group D: Biochemistry SGD – Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry SGD – Biochemistry lab	Group D: Physiology SGD – Physiology lab Group E: Self-study	Group D: Anatomy SGD – Anatomy lab Group E: Physiology SGD – Physiology lab
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group D: Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry lab	Group D: Self-study Group E: Self-study	Group D: Histology lab Group E: Self-study	Group D: Self-study Group E: Histology lab

Histology lab: Basic tissues – Stratified epithelium**Biochemistry lab:** Experiments related to amino acids & proteins

Group A, B & C

Week 4 (18th March 2019)

Theme: Macromolecules: Lipids & Cholesterol

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	Lecture: Blastocyst formation & Implantation (A) Venue: Lecture hall 1 Instructor	Lecture: Gastrulation (A) Venue: Lecture hall 1 Instructor	Lecture: Neurulation & Neural Crest cells (A) Venue: Lecture hall 1 Instructor	Lecture: Germ layers & their derivatives (A) Venue: Lecture hall 1 Instructor	Lecture: Folding of the embryo & somite formation (A) Venue: Lecture hall 1 Instructor
09.35 – 10.35	Lecture: Cholesterol: properties, distribution & biomedical importance (B) Venue: Lecture hall 1	Lecture: Glycolipids & Phospholipids & lipid-storage diseases (B) Venue: Lecture hall 1	Lecture: Eicosanoids and their biomedical importance (B) Venue: Lecture hall 1	Lecture: Enzymes: Nomenclature, functions & activity & Enzyme Kinetics (B) Venue: Lecture hall 1	Lecture: Types & functional properties of the ion channels (P) Venue: Lecture hall 1
10.45 – 12.45	Group A: Self-study Group B: Self-study Group C: Biochemistry SGD – Biochemistry lab	Group A: Anatomy SGD – Anatomy lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Anatomy SGD – Anatomy lab Group C: Self-study	Group A: Biochemistry SGD – Biochemistry lab Group B: Self-study Group C: Anatomy SGD – Anatomy lab	Group A: Self-study Group B: Biochemistry SGD – Biochemistry lab Group C: Self-study
12:46 - 01:10	Lunch/ Prayer Break				
01.15 – 03.15	Group A: Histology lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Histology lab Group C: Self-study	Group A: Biochemistry lab Group B: Self-study Group C: Histology lab	Group A: Self-study Group B: Biochemistry lab Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Biochemistry lab

Histology lab: Basic tissues – Connective tissue**Biochemistry lab:** Experiments related to lipids & cholesterol

Group D & E

Week 4 (18th March 2019)

Theme: Macromolecules: Lipids & Cholesterol

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	Lecture: Cholesterol: properties, distribution & biomedical importance (B) Venue: Lecture hall 2	Lecture: Glycolipids & Phospholipids & lipid-storage diseases (B) Venue: Lecture hall 2	Lecture: Eicosanoids and their biomedical importance (B) Venue: Lecture hall 2	Lecture: Enzymes: Nomenclature, functions & activity & Enzyme Kinetics (B) Venue: Lecture hall 2	Lecture: Types & functional properties of the ion channels (P) Venue: Lecture hall 2
09.35 – 10.35	Lecture: Blastocyst formation & Implantation (A) Venue: Lecture hall 2 Instructor	Lecture: Gastrulation (A) Venue: Lecture hall 2 Instructor	Lecture: Neurulation & Neural Crest cells (A) Venue: Lecture hall 2 Instructor	Lecture: Germ layers & their derivatives (A) Venue: Lecture hall 2 Instructor	Lecture: Folding of the embryo & somite formation (A) Venue: Lecture hall 2 Instructor
10.45 – 12.45	Group D: Self-study Group E: Anatomy SGD – Anatomy lab	Group D: Biochemistry SGD – Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry SGD – Biochemistry lab	Group D: Self-study Group E: Self-study	Group D: Anatomy SGD – Anatomy lab Group E: Self-study
12.46 - 01.10	Lunch/ Prayer Break				
01.15 – 03.15	Group D: Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry lab	Group D: Self-study Group E: Self-study	Group D: Histology lab Group E: Self-study	Group D: Self-study Group E: Histology lab

Histology lab: Basic tissues – Connective tissue

Biochemistry lab: Experiments related to lipids & cholesterol

Group A, B & C

Week 5 (25th March 2019)

Theme: Enzymes & co-factors

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Passive transport (P) Venue: Lecture hall 1 Instructor:	Lecture: Formation of body cavities (A) Venue: Lecture hall 1 Instructor:	Lecture: Foetal period (A) Venue: Lecture hall 1 Instructor:	Lecture: Foetal membranes & placenta (A) Venue: Lecture hall 1 Instructor:	Lecture: Birth defects (A) Venue: Lecture hall 1 Instructor:
09:35 – 10:35	Lecture: Enzyme regulation (B) Venue: Lecture hall 1 Instructor:	Lecture: Active transport (P) Venue: Lecture hall 1	Lecture: Enzyme: Competitive & non-competitive enzymes (B) Venue: Lecture hall 1 Instructor:	Lecture: Electrical events of action potential & RMP (P) Venue: Lecture hall 1 Instructor:	Lecture: Graded potential & Nernst potential (P) Venue: Lecture hall 1 Instructor:
10:45 – 12:45	Group A: Physiology SGD – Physiology lab Group B: Self-study Group C: Biochemistry SGD – Biochemistry lab	Group A: Anatomy SGD – Anatomy lab Group B: Physiology SGD – Physiology lab Group C: Self-study	Group A: Self-study Group B: Anatomy SGD – Anatomy lab Group C: Physiology SGD – Physiology lab	Group A: Biochemistry SGD – Biochemistry lab Group B: Self-study Group C: Anatomy SGD – Anatomy lab	Group A: Self-study Group B: Biochemistry SGD – Biochemistry lab Group C: Self-study
12:46 – 01:10	Lunch/ Prayer Break				
01:15 – 03:15	Group A: Histology lab Group B: Self-study Group C: Self-study	Group A: Self-study Group B: Histology lab Group C: Self-study	Group A: Biochemistry lab Group B: Self-study Group C: Histology lab	Group A: Self-study Group B: Biochemistry lab Group C: Self-study	Group A: Self-study Group B: Self-study Group C: Biochemistry lab

Histology lab: Muscular tissue

Biochemistry lab: Experiments related to enzymes

Physiology SGD:

Group D & E

Week 5 (25th March 2019)

Theme: Enzymes & co-factors

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	Lecture: Enzyme regulation (B) Venue: Lecture hall 2 Instructor:	Lecture: Active transport (P) Venue: Lecture hall 2	Lecture: Enzyme: Competitive & non-competitive enzymes (B) Venue: Lecture hall 2 Instructor	Lecture: Electrical events of action potential & RMP (P) Venue: Lecture hall 2 Instructor	Lecture: Graded potential & Nernst potential (P) Venue: Lecture hall 2 Instructor
09:35 – 10:35	Lecture: Passive transport (P) Venue: Lecture hall 2 Instructor:	Lecture: Formation of body cavities (A) Venue: Lecture hall 2 Instructor:	Lecture: Foetal period (A) Venue: Lecture hall 2 Instructor:	Lecture: Foetal membranes & placenta (A) Venue: Lecture hall 2 Instructor:	Lecture: Birth defects (A) Venue: Lecture hall 2 Instructor:
10:45 – 12:45	Group D: Self-study Group E: Anatomy SGD – Anatomy lab	Group D: Biochemistry SGD – Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry SGD – Biochemistry lab	Group D: Physiology SGD – Physiology lab Group E: Self-study	Group D: Anatomy SGD – Anatomy lab Group E: Physiology SGD – Physiology lab
12:46 - 01:10	Lunch/ Prayer Break				
01:15 – 03:15	Group D: Biochemistry lab Group E: Self-study	Group D: Self-study Group E: Biochemistry lab	Group D: Self-study Group E: Self-study	Group D: Histology lab Group E: Self-study	Group D: Self-study Group E: Histology lab

Histology lab: Muscular tissue**Biochemistry lab:** Experiments related to enzymes**Physiology SGD:**

Group A, B, C, D & E

Week 6 (1st April 2019)

Assessment Week

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 10:30	Study Leave		Written Paper MCQs & SAQs	Integrated Spot Examination	Viva Examination
10:40 – 11:40					
11:45 – 12:45					
12:46 - 01:10					