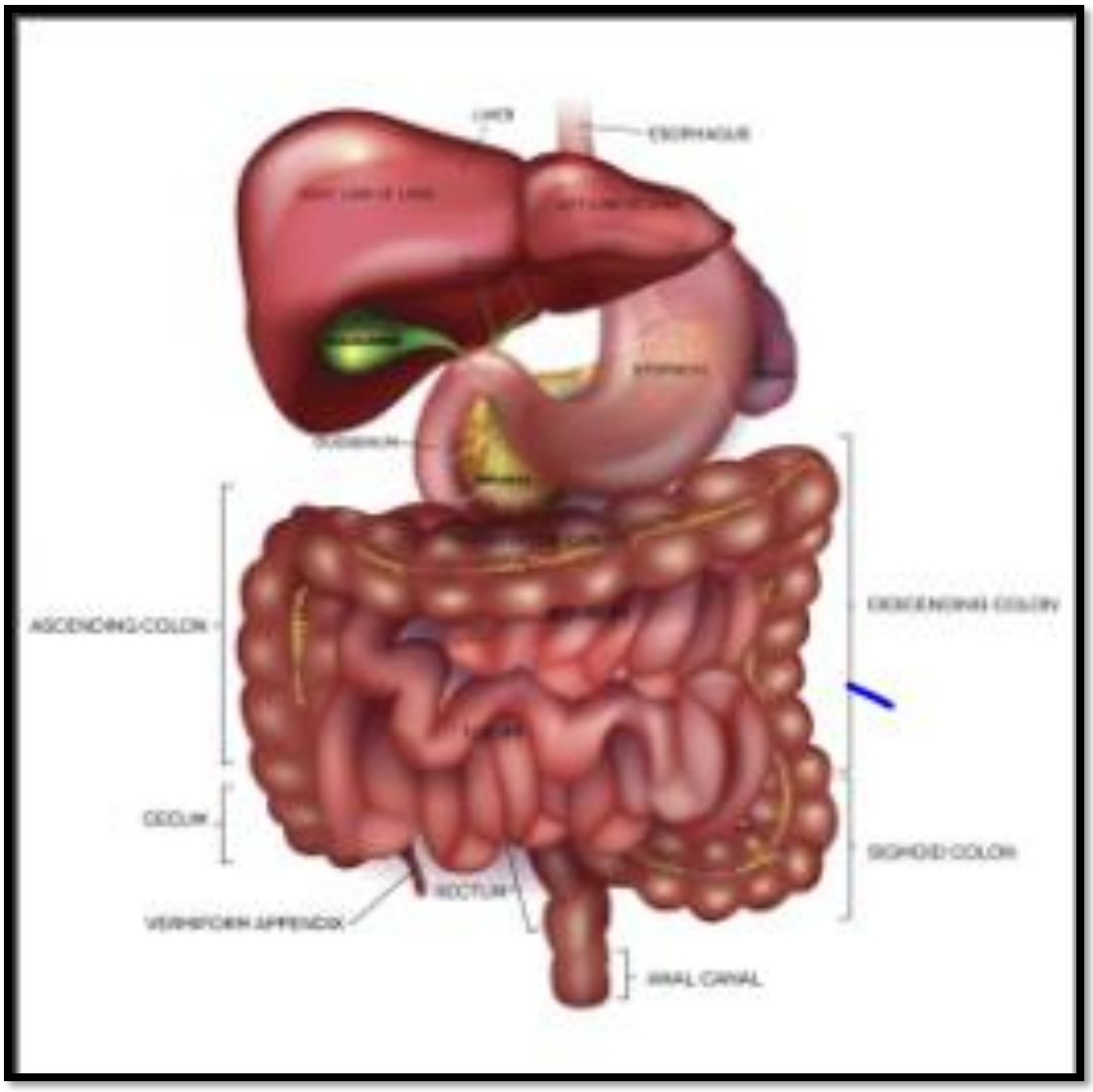
# GIT & NUTRITION-I MODULE

## 2ND YEAR MBBS



| S.No | CONTENTS | Page No |
|---|---|---|
| 1 | Module Integrated Committee | 4 |
| 2 | Introduction to Study Guide | 5 |
| 3 | Module: GIT-1 | 6 |
| 3.1 | Module rationale | 6 |
| 3.2 | Module outcome | 7 |
| 3.3 | Curriculum map of the module | 8 |
| 3.4 | Distribution among different disciplines | 24 |
| 4.0 | Books and reading material | 25 |
| 4.1 | Learning methodologies | 27 |
| 5 | Thematic timetables | 29 |
| 6.1 | Assessment Policy | 36 |
| 6.2 | Rules and Regulations of Exams | 37 |

**TABLE OF CONTENTS**

# DEPARTMENT OF MEDICAL EDUCATION

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| **ASSISTANT PROFESSOR** | Dr. Laraib |
| **FACULTY CO-ORDINATOR** | Dr. Shabkhez Rab |

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| **SURGERY & ALLIED** | Prof Dr. Khalid Nizami | Dr. Omer Farooq |

## 1. STUDY GUIDE DEVELOPMENT COMMITTEE

| Name | Designation | Signatures |
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| **Prof. Dr. Gulfreen Waheed** | DIRECTOR MEDICAL EDUCATION | |
| **Dr. Shabkhez Rab** | FACULTY COORDINATOR | |
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| **Prof. Sadia Wajahat** | Biochemistry | |
| **Prof. Shaukat Ali Shah** | Pathology | |
| **Prof. Dr. Asma** | Pharmacology | |
| **Prof Rana Akhtar Khan** | Community medicine | |

# 2. Introduction to Study guide

This study guide has been developed as an aid to inform students about the academic program for GIT & Nutrition-1 module. It will help students organize and manage their studies throughout the module and guide them on assessment methods, rules and regulations. Following particulars have been kept under consideration during development of this study guide;

- Communicates information on organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- Defines the learning objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings, clinical skills, practical, tutorial, case based learning and problem-based learning that will be implemented to achieve the module objectives.
- Provides a list of learning resources such as book references with page numbers, computer assisted learning programs, videos, web- links, and journals for students to consult in order to maximize their learning.
- Provides information on the assessment methods for formative (module exams) and summative assessment (block exams) of the module and Block examinations.
- Highlights the criteria for the student's overall performance.
- Focuses on information pertaining to examination policy, rules and regulations of Avicenna Medical College and the University of Health Sciences (UHS).

## 3.1 Module rationale

Gastrointestinal system is an integral part of human body which is primarily related to consumption, digestion and assimilation of food to provide nutrition and calories on regular basis to human body which are essential for basic functioning of each organ of human beings. After this module, students will be able to explain why studying GIT is crucial for medical education, how GIT functions impact digestion, absorption, and overall health, highlight the role of the liver in metabolic activities and connect GIT knowledge to clinical practice and patient care.

We have assigned six (6) weeks in academic calendar of 2nd year curriculum of MBBS to Gastrointestinal Module. We have divided our module into eight (8) themes. For every theme, anatomy, physiology, biochemistry, pathology, pharmacology, community medicine, behavioral sciences, general medicine and surgery have planned for integrated teaching of students for better comprehension and understanding of subject.

## 3.2 Module outcome

- To describe gross and microscopic anatomy of different parts of gastrointestinal system and associated organs
- To describe the embryological development of different parts of gastrointestinal system and associated organs
- To describe the functional anatomy and physiology of different parts of gastrointestinal system and associated organs
- To describe the motility, secretary and digestive function of gastrointestinal system
- To describe the biochemical aspects of carbohydrate metabolism
- To discuss pathological aspect and management of gastrointestinal related diseases
- To discuss the pharmacological treatment of diarrhea
- To discuss the psychosocial impact of gastrointestinal diseases in society
- To discuss the preventive measures related to gastrointestinal diseases
- To comprehend concept of balanced diet and malnutrition

## 3.3 Curriculum Map of the module

### Themes

- Oral cavity & Esophagus (O &E)
- Walls of Abdomen & Peritoneum
- Stomach
- Small intestine
- Large intestine (Cecum, Appendix, Colon, Rectum & Anal Canal)
- Liver & Biliary tree
- Pancreas & Spleen
- Nutrition

### Clinical relevance

- Protein in urine
- Kidney stones
- Kidney pain
- Blood in urine (hematuria)
- Kidney infection
- Acute kidney injury (AKI)
- Kidney cancer
- Dialysis

# Curriculum of individual subjects

| ANATOMY | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No.** | **Code** | **Topic** | **Learning Objective** | **Teaching strategy** | **Department** | **Faculty members** | **References** |
| 1 | GIT-A-018 | Oral Cavity and Oropharynx | Describe the light microscopic structure of; 1. Lips 2. Tongue including lingual papillae and taste buds 3. Oral Cavity (Cheeks, Teeth gums, hard & Soft palate), Describe histology of oropharynx | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 2 | GIT-A-001 | Oral Cavity and Oropharynx | Describe the gross anatomical features of oral cavity with its neurovascular supply and lymphatic drainage | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 667 |
| 3 | GIT-A-001 | Oral Cavity and Oropharynx | Discuss the location, anatomical features, relations and vascular supply of tonsils: nasopharyngeal, palatine and lingual. Describe the Waldeyer's ring. | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. No 713-718 |
| 4 | GIT-A-001 | Oral Cavity and Oropharynx | Describe the structure of tongue with attachments of muscles, blood supply, nerve supply and lymphatic drainage Discuss the anatomical basis of injury to hypoglossal nerve | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. No 713-726 |
| 5 | GIT-A-001 | Oral Cavity and Oropharynx | Discuss the skeletal framework of hard palate with its neurovascular supply and lymphatic drainage Describe the gross anatomical features of soft palate with its neurovascular supply and lymphatic drainage Describe the attachments, nerve supply and actions of muscles of soft palate | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 713-726 |
| 6 | GIT-A-001 | Oral Cavity and Oropharynx | Describe anatomical features, relations and neurovascular supply of parotid gland and its duct, mentioning the structures entering and exiting the gland. | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 713-726 |
| 7 | GIT-A-014 | Oral Cavity | Describe the development of tongue, Describe the embryological basis of tongue tie, | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 8 | GIT-A-022 | Oral Cavity | Identify, draw and label the histological sections of Tongue and Lips enumerate points of identification | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 9 | GIT-A-001 | Oral Cavity and Oropharynx | Models and Pics of Oral Cavity and Glands | Gross Practical | Anatomy | Dr. Shazia/Dr.Madiha | Snell Anatomy by Region and Langman Embryology |
| 10 | GIT-A-001 | Oral Cavity and Oropharynx | Models and Pics of Oral Cavity and Glands | Tutorial | Anatomy | Dr. Shazia/Dr.Madiha | Snell Anatomy by Region and Langman Embryology |
| 11 | GIT-A-001 | Oral Cavity and Oropharynx | Name the parts of pharynx giving their extent, anatomical features, structure, neurovascular supply and Lymphatic drainage Name the pharyngeal constrictor muscles defining their attachments, | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. 726-729 |

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| | | | innervation and structure traversing the gaps between adjacent muscles. | | | | |
| 12 | GIT-A-002 | Anterior Abdominal Wall | Describe the planes and quadrants of abdomen, Draw and label the cutaneous innervation and dermatomes of anterior abdominal wall,Draw and label the cutaneous innervation and dermatomes of anterior abdominal wall and anterolateral Abdominal wall Describe anterolateral Abdominal wall arteries, Veins andLymphatics and related clinical correlates—Caput Medusae | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. 284-288 |
| 13 | GIT-A-002 | Anterior Abdominal Wall | Describe the attachments, nerve supply and actions of muscles of anterior abdominal wall, Describe the fascia of anterior abdominal wall with its clinical significance,Describe the clinical correlates (Abdominal pain, Muscle rigidity, Referred pain, anterior abdominal nerve block) | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. 284-288 |
| 14 | GIT-A-002 | Anterior Abdominal Wall | Describe the extent, formation and contents of rectus sheath Give the formation and extent of inguinal ligament Describe the formation of superficial and deep inguinal rings and conjoint tendon | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. 311-314 |
| 15 | GIT-A-014 | Oral Cavity | Describe the development of palate, Describe the embryological basis of various facial clefts, Identify the parts of the developing tongue and palate | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 16 | GIT-A-002 | Anterior Abdominal Wall | Describe the extent, boundaries and contents of inguinal canal,Define the following hernias: umbilical, epigastric, incisional, Spigelian, lumbar, femoral, internal and ,inguinal, Differentiate between direct and indirect inguinal hernias | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 311-314 |
| 17 | GIT-A-018 | Oral Cavity & Esopaghus | Describe the histological structure of parotid, submandibular and sublingual glands. Compare and contrast the histological structures of parotid, submandibular and sublingual glands. Describe the serous and mucous acini and give histological differences between the two. Describe the structure and location of serous demilunes. | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 18 | GIT-A-023 | Salivary Gland | dentify, draw and label the histological sections of Salivary glands (Submandibular, Sublingual and Parotid) | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 19 | GIT-A-014 | Oral Cavity | Describe the development of palate, Describe the embryological basis of various facial clefts, Identify the parts of the developing tongue and palate | Gross Practical | Anatomy | Dr. Shazia/Dr. Madiha | Langman Medical Embryology |
| 20 | GIT-A-018 | Oral Cavity & Esopaghus | Describe the histological structure of parotid, submandibular and sublingual glands. Compare and contrast the histological structures of parotid, submandibular and sublingual glands. Describe the serous and mucous acini and give histological differences between the two. Describe the structure and location of serous demilunes. | Tutorial | Anatomy | Dr. Shazia/Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 215-220 |
| 21 | GIT-A-002 | Anterior Abdominal Wall | Describe the extent, boundaries and contents of inguinal canal,Define the following hernias: umbilical, epigastric, incisional, Spigelian, lumbar, femoral, internal and ,inguinal, Differentiate between direct and indirect inguinal hernias | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. 311-314 |
| 22 | GIT-A-004 | Peritoneum | Trace the horizontal and vertical peritoneal reflections, Describe the relationship of viscera to the peritoneum, Describe the gross anatomical features of the following - Mesentery - Omenta - Peritoneal ligaments - Peritoneal fold - Peritoneal sac, recesses, spaces and gutters Describe the nerve supply of Peritoneum | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. 311-314 |
| 23 | GIT-A-004 | Peritoneum | Describe the anatomical basis and manifestations of the following: -Peritonitis and ascites -Peritoneal adhesions (and adhesiostomy) Abdominal Paracentesis | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by |

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| | | | | | | | Region, 10th ed. Pg. 330-336 |
| 24 | GIT-A-015 | Foregut | Describe the formation and divisions of gut tube Embryology, Describe the development of mesenteries,Describe the development of esophagus,Describe the embryological basis of esophageal atresia and/or tracheoesophageal fistula | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 25 | GIT-A-018 | Oral Cavity & Esopaghus | Relate the characteristics of various layers of GIT with 225 their function Describe the light microscopic structure of esophagus Tabulate the histological differences between different parts of esophagus Describe the histological changes associated with reflux esophagitis and Barrett's esophagus | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 26 | GIT-A-024 | Upper GIT | Identify, draw and label the histological structure of the esophagus and enumerate points of identification | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 27 | GIT-A-002 | Anterior Abdominal Wall | Describe the extent, boundaries and contents of inguinal canal,Define the following hernias: umbilical, epigastric, incisional, Spigelian, lumbar, femoral, internal and ,inguinal, Differentiate between direct and indirect inguinal hernias | Gross Practical | Anatomy | Dr. Madiha | Snell Clinical Anatomy by Region |
| 28 | GIT-A-024 | Upper GIT | Identify, draw and label the histological structure of stomach and enumerate points of identification | Histology Practical | Anatomy | Dr. Madiha | Histology practical note book |
| 29 | GIT-A-005 | Esophagus | Describe the extent of esophagus, its constrictions, neurovascular supply and lymphatic drainage, Discuss the anatomical basis of esophageal varices, achalasia and Gastro Esophageal Reflux Disease (GERD) | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 339 |
| 30 | GIT-A-006 | Stomach | Describe the location, position, parts, external and internal structure, relations, vascular and nerve supply and lymphatic drainage of stomach,Draw and label a diagram illustrating the lymphatic drainage of Stomach, Describe the clinical presentation and the anatomical basis and manifestations of the following conditions: Carcinoma of stomach Gastric and peptic ulcers | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 340-342 |
| 31 | GIT-A-007 | Small & Large Intestine | Describe the location, position, parts, relations, neurovascular supply and lymphatic drainage of duodenum,Discuss the gross anatomical features of jejunum and ileum with its neurovascular supply and lymphatic drainage | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 345-357 |
| 32 | GIT-A-007 | Small & Large Intestine | Describe the location, position, parts, salient features, neurovascular supply and lymphatic drainage of large intestine (Sigmoid Colon), Describe the location, common positions, neurovascular supply and lymphatic drainage of appendix | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. No 345-357 |
| 33 | GIT-A-015 | Foregut | Describe the development and rotation of stomach Describe the embryological basis of pyloric stenosis | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 34 | GIT-A-015 | Foregut | Describe the development of duodenum, liver | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 35 | GIT-A-019 | Stomach | Describe the light microscopic structure of stomach, Describe the role of parietal cells in pernicious anemia | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 36 | GIT-A-025 | Small Intestine | Identify, draw and label the histological structure of small intestine (Duodenum, Jejunum, and Ileum) and enumerate points of identification | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |

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| 37 | GIT-A-006 | Stomach | Describe the location, position, parts, external and internal structure, relations, vascular and nerve supply and lymphatic drainage of stomach,Draw and label a diagram illustrating the lymphatic drainage of Stomach, Describe the clinical presentation and the anatomical basis and manifestations of the following conditions: Carcinoma of stomach Gastric and peptic ulcers | Gross Practical | Anatomy | Dr. Madiha/Dr. Shazia | Snell Clinal Anatomy by Region, |
| 38 | GIT-A-015 | Foregut | Describe the development of duodenum, liver | Tutorial | Anatomy | Dr. Madiha/Dr. Shazia | Langman Medical Embryology |
| 39 | GIT-A-007 | Small & Large Intestine | Describe the anatomical basis and manifestations of the following conditions: 1. Duodenal Ulcers 2. Ileal diverticulum 3. Diverticulosis 4. Large bowel cancer 5. Appendicitis 6. Volvulus 7. Intussusception | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 345-357 |
| 40 | GIT-A-008 | Liver | Describe the origin, course, branches (tributaries in case of veins) and distribution of the blood vessels of GIT, Describe the formation, Tributaries and drainage of hepatic-portal vein, Discuss the sites and vessels contributing in portosystemic anastomosis, Describe the clinical picture and anatomical basis for the blockage of porto-systemic anastomosis, Identify the blood vessels supplying GIT on anatomical model and cadaver | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 368-369 |
| 41 | GIT-A-008 | Liver | Describe location, lobes, important relations, peritoneal ligaments, blood supply, lymphatic drainage, nervesupply, related clinical correlates of liver and subphrenic spaces. | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 368-369 |
| 42 | GIT-A-009 | Billiary System | Describe components of Biliary tree- hepatic duct and bile duct, Describe relations, functions, blood supply, lymphatic drainage and nerve supply of Gallbladder Describe related clinical correlates- gall stones, biliary colic, cholecystectomy, gallbladder gangrene | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. No 370-372 |
| 43 | GIT-A-015 | Foregut | Describe the development of, Describe the embryological basis of intrahepatic and extrahepatic biliary atresia Describe the development of pancreas,Describe the embryological basis of annular pancreas | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 44 | GIT-A-016 | Midgut | Describe the development of midgut especially mentioning physiological herniation, rotation, retraction of herniated loops and mesenteries of the intestinal loops, Describe the embryological basis of the following<br>1. mobile cecum<br>2. volvulus<br>3. retro colic hernia<br>4. Omphalocele 5. gastroschisis | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 45 | GIT-A-020 | Small Intestine | Describe the light microscopic structure of - duodenum -jejunum ileum, Discuss the histological basis of celiac disease, Discuss the histological basis of Crohn's disease | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 46 | GIT-A-026 | Large Intestine | Identify, draw and label the histological structure of large intestine and enumerate points of identification (Rectum and Colon) | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 47 | GIT-A-006 | Stomach | Identify and demonstrate the parts, external and internal features of stomach on anatomical model and cadaver | Gross Practical | Anatomy | Dr. Madiha/Dr. Shazia | Snell Clinal Anatomy by Region |
| 48 | GIT-A-016 | Midgut | Describe the development of midgut especially mentioning physiological herniation, rotation, retraction of herniated loops and mesenteries of the intestinal loops, Describe the embryological basis of the following<br>1. mobile cecum<br>2. volvulus<br>3. retro colic hernia<br>4. Omphalocele 5. gastroschisis | Tutorial | Anatomy | Dr. Madiha/Dr. Shazia | Langman Medical Embryology |
| 49 | GIT-A-010 | Pancreas | Describe the location, surfaces, peritoneal reflections, relations, neurovascular supply and lymphatic drainage | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by |

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| | | | of pancreas, Describe the anatomical basis and manifestations<br>of pancreatitis and pancreatic cancer, Identify the parts of the pancreas | | | | Region, 10th ed. Pg. No 374-375 |
| 50 | GIT-A-011 | Spleen | Describe the location, surfaces, peritoneal reflections, impressions, external structure, neurovascular supply and lymphatic drainage of spleen, Describe the anatomical basis and manifestations of splenic trauma and splenomegaly,Identify the borders, surfaces and Impressions of spleen, Demonstrate the correct anatomical positioning of spleen | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 377-378 |
| 51 | GIT-A-012 | Rectum and Anal Canal | Describe the gross anatomical features, peritoneal relations, blood supply, nerve supply.and lymphatic drainage of Sigmoid Colon, rectum and anal canal, Describe the anatomical basis for rectal prolapse, rectal examination, rectal cancer and hemorrhoids | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 350-355 |
| 52 | GIT-A-012 | Rectum and Anal Canal | Describe the gross anatomical features, peritoneal relations, blood supply, nerve supply.and lymphatic drainage of Sigmoid Colon, rectum and anal canal, Describe the anatomical basis for rectal prolapse, rectal examination, rectal cancer and hemorrhoids | Lecture | Anatomy | Dr. Razia | Snell Clinal Anatomy by Region, 10th ed. Pg. No 350-355 |
| 53 | GIT-A-016 | Midgut | Describe the development of midgut especially mentioning physiological herniation, rotation, retraction of herniated loops and mesenteries of the intestinal loops, Describe the embryological basis of the following<br>1. mobile cecum<br>2. volvulus<br>3. retro colic hernia<br>4. Omphalocele 5. gastroschisis | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 54 | GIT-A-021 | Large Intestine | Describe the light microscopic structure of 1. Colon 2. Appendix 3. Rectum Define colorectal cancer, anal abscess, hemorrhoids | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 211-214 |
| 55 | GIT-A-027 | Organs associated with GIT | Identify, draw and label the histological sections of Gall bladder, Pancreas and enumerate points of identification | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 56 | GIT-A-011 | Spleen | Describe the location, surfaces, peritoneal reflections, impressions, external structure, neurovascular supply and lymphatic drainage of spleen, Describe the anatomical basis and manifestations of splenic trauma and splenomegaly,Identify the borders, surfaces and Impressions of spleen, Demonstrate the correct anatomical positioning of spleen | Gross Practical | Anatomy | Dr. Madiha/Dr. Shazia | Snell Clinical Anatomy by Region |
| 57 | GIT-A-016 | Midgut | Describe the development of midgut especially mentioning physiological herniation, rotation, retraction of herniated loops and mesenteries of the intestinal loops, Describe the embryological basis of the following<br>1. mobile cecum<br>2. volvulus<br>3. retro colic hernia<br>4. Omphalocele 5. gastroschisis | Tutorial | Anatomy | Dr. Madiha/Dr. Shazia | Langman Medical Embryology |
| 58 | GIT-A-010 | Pancreas | Describe the location, surfaces, peritoneal reflections, relations, neurovascular supply and lymphatic drainage of pancreas, Describe the anatomical basis and manifestations<br>of pancreatitis and pancreatic cancer, Identify the parts of the pancreas | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 374-375 |
| 59 | GIT-A-011 | Spleen | Describe the location, surfaces, peritoneal reflections, impressions, external structure, neurovascular supply and lymphatic drainage of spleen, Describe the anatomical basis and manifestations of splenic trauma and splenomegaly,Identify the borders, surfaces and Impressions of spleen, Demonstrate the correct anatomical positioning of spleen | Lecture | Anatomy | Dr. Kalsoom | Snell Clinal Anatomy by Region, 10th ed. Pg. No 377-378 |

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| 60 | GIT-A-016-017 | Midgut and Hindgut | Describe the embryological basis of Meckel's diverticulum, Describe the embryological basis of -Gut rotation defects,-Gut atresia and stenosis, Describe the development of hindgut, Describe the embryological basis of<br>-Rectourethral and rectovaginal fistulas<br>-Recto anal fistulas and atresia<br>-Imperforate anus<br>-Congenital megacolon Identify the parts of the developing foregut, midgut and hindgut originating from the endoderm | Lecture | Anatomy | Dr. Razia | Langman Medical Embryology, 5th ed. Ch. NoPg. No 230-254 |
| 61 | GIT-A-020 | Small Intestine | Describe the light microscopic structure of - duodenum -jejunum ileum, Discuss the histological basis of celiac disease, Discuss the histological basis of Crohn's disease | Lecture | Anatomy | Dr. Madiha | Medical Histology By Laiq Hussain 6th ed Pg. No 169-204 |
| 62 | GIT-A-027 | Organs associated with GIT | Identify, draw and label the histological sections of liver and enumerate points of identification | Histology Practical | Anatomy | Dr. Shaista | Histology practical note book |
| 63 | GIT-A-010 | Pancreas | Describe the location, surfaces, peritoneal reflections, relations, neurovascular supply and lymphatic drainage of pancreas, Describe the anatomical basis and manifestations<br>of pancreatitis and pancreatic cancer, Identify the parts of the pancreas | Gross Practical | Anatomy | Dr. Madiha/ Dr. Shazia | Snell Clinal Anatomy by Region |
| 64 | GIT-A-016-017 | Midgut and Hindgut | Describe the embryological basis of Meckel's diverticulum, Describe the embryological basis of -Gut rotation defects,-Gut atresia and stenosis, Describe the development of hindgut, Describe the embryological basis of<br>-Rectourethral and rectovaginal fistulas<br>-Recto anal fistulas and atresia<br>-Imperforate anus<br>-Congenital megacolon Identify the parts of the developing foregut, midgut and hindgut originating from the endoderm | Tutorial | Anatomy | Dr. Madiha/ Dr. Shazia | Langman Medical Embryology |
| 65 | GIT-A-028 | Lymphatic tissue associated with GIT | Identify, draw and label the histological sections of Palatine tonsil, appendix, peyer's patches and enumerate points of identification | Lecture | Histology Practical | Dr. Shaista | Histology practical note book |

# PHYSIOLOGY

| No. | Code | Topic | Learning Objective | Teaching strategy | Department | Faculty members | References |
|---|---|---|---|---|---|---|---|
| 1 | GIT-P-001 | General Principles of GIT Function-Motlilty, Nervous Control & Blood Flow | Classify the components of enteric nervous system | Lecture | Physiology | Dr Nida | Guyton & Hall 14th ed. Ch. 63 Pg. 789 |
| 2 | GIT-P-001 | General Principles of GIT Function-Motlilty, Nervous | Discuss the location and significance of myenteric plexus.Discuss the location and significance of myenteric plexus | Lecture | Physiology | Dr Madiha | Guyton & Hall 14th ed. Ch. 63 Pg. 789 |

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| | | Control & Blood Flow | | | | | |
| 3 | GIT-P-001 | General Principles of GIT Fun | Enlist the gastrointestinal reflexes & explain the function of these reflexes Explain the mechanism of developing spike potential Enlist the factors that depolarize & hyperpolarize the GIT membrane.Enlist the factors that depolarize & hyperpolarize the GIT membrane.Enlist the excitatory & inhibitory neurotransmitters of enteric nervous system.Enlist the hormones acting on GIT, their stimuli, site of release and actions.Explain Nervous control of blood flow | Lecture | Physiology | Dr Madiha | Guyton & Hall 14th ed. Ch. 63 Pg. 790 |
| 4 | GIT-P-002 | Oral Cavity & Esophagus | Trace the reflex arc of mastication.Explain the process and importance of chewing reflexEnlist the stages of swallowing Describe the mechanism of voluntary stage of swallowing.Enlist the steps involved in involuntary stage of swallowing.Explain the effect of swallowing on respiration.Discuss the mechanism of esophageal stage of swallowing | Lecture | Physiology | Dr Nida | Guyton & Hall 14th ed. Ch. 63 Pg. 790 |
| 5 | GIT-P-011 | Cranial nerve | Demonstrate Cranial nerve V, IX & X testing | Practical | Physiology | Dr Rabiya | Zafar ali ch vol: II |
| 6 | GIT-P-001 | General Principles of GIT Function-Motlilty, Nervous Control & Blood Flow | Classify the components of enteric nervous system | SGD | Physiology | Dr Beenish | Guyton & Hall 14th ed. Ch. 63 Pg. 789 |
| 7 | GIT-P-003 | Stomach | Enumerate the causes, features, and pathophysiology of gastritis, Explain the physiological basis of each feature of gastritis, and Recommend treatment of gastritis, Enumerate the causes, features, and pathophysiology of peptic ulcer. Explain the physiological basis of each feature of peptic ulcer | Lecture | Medicine Departmen | Dr. Salman Nasrullah | Davidsons |
| 8 | GIT-P-002 | Oral Cavity & Esophagus | Explain the types and role of different peristalsis originating in esophagusDiscuss the role of Lower Esophageal Sphincter (Gastroesophageal). Discuss the pathophysiology of achalasia & Megaesophagus.Enlist the features and treatment of achalasia. | lecture | Physiology | Dr.Nida | Guyton & Hall 14th ed. Ch. 63 Pg. 787 |
| 9 | GIT-P-003 | Stomach | Explain storage function of stomach.Describe the basic electrical rhythm of stomach wall.Explain the role of pyloric pump and pyloric sphincter in gastric emptying.Explain the factors that promote Stomach e emptying. Discuss the duodenal (nervous & hormonal) factors that Inhibit Stomach emptying. | Lecture | Physiology | Prof. Dr.Sadia | Guyton & Hall 14th ed. Ch. 67 Pg. 834 |
| 10 | GIT-P-003 | Stomach | Explain storage function of stomach. Describe the basic electrical rhythm of stomach wall. Explain the role of pyloric pump and pyloric sphincter in gastric emptying.Explain the factors that promote Stomach. Emptying.Discuss the duodenal (nervous & hormonal) factors that Inhibit Stomach emptying. | Lecture | Physiology | Dr.Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 834 |
| 11 | GIT-P-003 | Stomach | Enlist the factors that initiate enterogastric inhibitory reflexes.Enumerate the causes, features, and pathophysiology of gastritis. Explain the physiological basis of each feature of gastritis.Recommend treatment of gastritis.Enumerate the causes, features, and pathophysiology peptic ulcer.Explain the physiological basis of each feature of peptic ulcer. | Lecture | Physiology | Dr.Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 834 |
| 12 | GIT-P-011 | Cranial nerve | Demonstrate Cranial nerve V, IX & X testing | Practical | Physiology | Dr. Rabiya | Zafar ali ch vol: II |
| 13 | GIT-P-002 | Oral Cavity & Esophagus | Explain the types and role of different peristalsis originating in esophagusDiscuss the role of Lower Esophageal Sphincter (Gastroesophageal). Discuss the pathophysiology of achalasia & Megaesophagus.Enlist the features and treatment of achalasia. | SGD | Physiology | Dr.Faiza | Guyton & Hall 14th ed. Ch. 63 Pg. 787 |

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| 14 | GIT-P-004 | Small intestine | Enumerate and explain the hormones and movements of small intestine | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 805 |
| 15 | GIT-P-004 | Small intestine | Explain the term "peristaltic rush"Explain the functions of ileocecal valve and sphincterEnumerate the types of intestinal sprueExplain the consequences of sprue on the body | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 67 |
| 16 | GIT-P005 | Small intestine | Enumerate the types of movements taking place in colonExplain the mechanism of developing movements of colon and their control through Gastrocolic and Duodenocolic Reflexes. | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 834 |
| 17 | GIT-P-011 | Cranial Nerves | Demonstrate Cranial nerve V, IX & X testing | Practical | Physiology | Dr Rabia | Zafar ali ch vol: II |
| 18 | GIT-P-004 | Small intestine | Stomach and small intestine movements | SGD | physiology | Dr Faiza | Guyton & Hall 14th ed. Ch. 64 Pg. 805 |
| 19 | GIT-P-005 | Large Intestine | Enlist the defecation reflexes Explain the mechanism OF Defecation reflex.Trace the reflex arc of defecationf defecation reflex. | Lecture | Physiology | Dr.Faiza | Guyton & Hall 14th ed. Ch. 64 Pg. 805 |
| 20 | GIT-P-005 | Large Intestine | Name the other autonomic reflexes that affect bowel activity, Explain the pathophysiology of constipation | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 64 Pg. 836 |
| 21 | GIT-P-005 | Large Intestine | Discuss the causes of diarrhea, Describe the cause of Hirschsprung's disease integrate with medicine | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 64 Pg. 871 |
| 22 | GIT-P-005 | Liver | Explain the functions of liver,Differentiate between liver and gall bladder bile and the hormones acting on them | Lecture | Physiology | Dr Afsheen | Zafar ali ch vol: II |
| 23 | GIT-P-011 | Cranial Nerves | Demonstrate Cranial nerve V, IX & X testing | Practical | Physiology | Dr Rabia | Guyton & Hall 14th ed. Ch. 64 Pg. 805 |
| 24 | GIT-P-005 | Large Intestine | Discuss the causes of diarrhea, Describe the cause of Hirschsprung's disease integrate with medicine,Defecation Reflex | SGD | physiology | Dr Faiza | |
| 25 | GIT-P-007 | Pancreas | Explain functions and Secretions of Pancreas,causes and PathoPHYSIOLOGY OF Acute And Chronic Pancreatitis | lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 838 |
| 26 | GIT-P-008 | Vomiting Reflex | Describe the stages of vomiting act,Trace the reflex arc of vomiting,Explain the role of chemoreceptor trigger Zone for initiation of vomiting by drugs or by motion sickness | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. Ch. 67 Pg. 838 |
| 27 | | | Overview of GIT | Lecture | Physiology | Dr Afsheen | Guyton & Hall 14th ed. |
| 28 | | Cranial Nerve | Demonstrate Cranial nerve V, IX & X testing | Practical | Physiology | Dr Faiza | Zafar ali ch vol: II |
| 29 | -GITA-026 | Large Intestine | Identify, draw and label the histological structure of large intestine and enumerate points of identification (Rectum and Colon) | SGD | physiology | Dr Shaista | Histology practical note book |

# BIOCHEMISTRY

| No. | Code | Topic | Learning Objective | Teaching strategy | Department | Faculty members | References |
|---|---|---|---|---|---|---|---|
| 1 | GIT-B-001 | Biochemistry of GIT /GIT secretions & digestion and absorption of dietary carbohydrates | Give the composition and importance of saliva and related clinical disorder (xerostomia) | **Lecture** | Biochemistry | Dr Yusra | Mushtaq Vol.1 Chapter 10 |

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|---|---|---|---|---|---|---|---|
| 2 | GIT-B-001 | Biochemistry of GIT /GIT secretions & digestion and absorption of dietary carbohydrates | Give the composition and importance of gastric juice | **Lecture** | Biochemistry | Dr Yusra | Mushtaq Vol.1 Chapter 10 |
| 3 | GIT-B-001 | Biochemistry of GIT /GIT secretions & digestion and absorption of dietary carbohydrates | mechanism of HCl secretion and related clinical disorders (achlorhydria, gastric ulcer | **Lecture** | Biochemistry | Dr Yusra | Mushtaq Vol.1 Chapter 10 |
| 4 | GIT-B-001 | Biochemistry of GIT /GIT secretions & digestion and absorption of dietary carbohydrates | Give the composition and importance of pancreatic juice, bile and succus entericus and related clinical disorders (pancreatitis, cystic fibrosis, cholelithiasis). Digestion and absorption of carbohydrates and glucose transport | **Lecture** | Biochemistry | Dr Yusra | Mushtaq Vol.1 Chapter 10 |
| 5 | GIT-B-021 | Vitamins/ Energy releasing vitamins & vitamin E and K | Describe sources, RDA, biochemical functions, deficiency, and toxicity of vitamin E and vitamin K. | **Lecture** | Biochemistry | Dr Yusra | Lippincott 7th edition |
| 6 | GIT-B-021 | Vitamins/ Energy releasing vitamins & vitamin E and K | Vitamin B1 | **Lecture** | Biochemistry | Dr yusra | Lippincott 7th edition |
| 7 | GIT-B-004 | Carbohydrate metabolism/ Glycolysis | Compare key features of aerobic and anaerobic glycolysis. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott 7th edition Chapter 8 |
| 8 | GIT-B-004 | Carbohydrate metabolism/ Glycolysis | Compare key features of aerobic and anaerobic glycolysis. Calculate the number of ATP produced during aerobic and anaerobic glycolysis. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott 7th edition Chapter 8 |
| 9 | GIT-B-004 | Carbohydrate metabolism/ Glycolysis | Explain hemolytic anemia in subjects with pyruvate kinase deficiency based on your biochemical knowledge. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott 7th edition Chapter 8 |

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|---|---|---|---|---|---|---|---|
| 10 | GIT-B-006 | Carbohydrate metabolism/ Kreb's Cycle | TCA Cycle | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott 7th edition chapter 9 |
| 11 | GIT-B-022 | Minerals | Define and classify minerals according to their daily requirements. Give sources, functions and biomedical importance of Na, K | **Lecture** | Biochemistry | Dr Sadia Khalil | Lippincott 7th edition Chapter 29 |
| 12 | GIT-B-022 | Minerals | Give sources, functions and biomedical importance of Na, K and Cl. | **Lecture** | Biochemistry | Dr Sadia Khalil | Lippincott's 7th ed Ch = 29 |
| 13 | GIT-B-0045 | Carbohydrate metabolism/ Metabolic fates of pyruvate | Discuss the metabolic fates of pyruvate. Describe the transport of pyruvate from cytosol to mitochondria. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 8 Harper's 31st ed Ch= 17 |
| 14 | GIT-B-008 | Carbohydrate metabolism/ Glycogen metabolism | Illustrate the reactions of glycogenesis, glycogenolysis along with their regulation and significance | **Lecture** | Biochemistry | Prof DR Sadia Amir | Lippincott's 7th ed Ch = 11 Harper's 31st ed Ch= 18 |
| 15 | GIT-B-008 | Carbohydrate metabolism/ Glycogen metabolism | Enlist various types of glycogen storage diseases (GSDs) | **Lecture** | Biochemistry | Prof DR Sadia Amir | Lippincott's 7th ed Ch = 11 Harper's 31st ed Ch= 18 |
| 16 | GIT-B-008 | Carbohydrate metabolism/ Glycogen metabolism | Infer the key biochemical and clinical features of various GSDs from the respective enzyme deficiencies. | **Lecture** | Biochemistry | Prof DR Sadia Amir | Lippincott's 7th ed Ch = 11 Harper's 31st ed Ch= 18 |
| 17 | GIT-B-013 | Respiratory chain & oxidative phosphorylation /ETC | Diagrammatically illustrate the organization of electron transport chain (ETC) depicting the flow of electrons | **Lecture** | Biochemistry | Dr Sadia khail | Lippincott 7th edition Chapter 6, Harper 31st edition chapter 17 |
| 18 | GIT-B-013 | Respiratory chain & oxidative phosphorylation /ETC | Enlist the components of complex I, II, III, and IVEnumerate clinically important inhibitors of electron transport chain and mention their site of action. | **Lecture** | Biochemistry | Dr Sadia khail | Lippincott 7th edition Chapter 6, Harper 31st edition chapter 17 |
| 19 | GIT-B-013 | Respiratory chain & oxidative phosphorylation /ETC | Diagrammatically illustrate the organization of electron transport chain (ETC) depicting the flow of electrons | **Lecture** | Biochemistry | Dr Sadia khail | Lippincott 7th edition Chapter 6, Harper 31st edition chapter 17 |
| 20 | GIT-B-013 | Respiratory chain & oxidative phosphorylation /ETC | Enlist the components of complex I, II, III, and IVEnumerate clinically important inhibitors of electron transport chain and mention their site of action. | **Lecture** | Biochemistry | Dr Sadia khail | Lippincott 7th edition Chapter 6, Harper 31st edition chapter 17 |
| 21 | GIT-B-0045 | Carbohydrate metabolism/ | Discuss the metabolic fates of pyruvate. Describe the transport of pyruvate from cytosol to mitochondria. | **Lecture** | Biochemistry | Dr Sadia Khalil | Lippincott's 7th ed Ch = 8 |

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|---|---|---|---|---|---|---|---|
| | | Metabolic fates of pyruvate | | | | | Harper's 31st ed Ch= 17 |
| 22 | **GIT-B-007** | Carbohydrate metabolism/ Gluconeogenesis | Define gluconeogenesis and enumerate gluconeogenic substrates (precursors) Delineate the reactions involved in synthesis of glucose from various gluconeogenic substrates. Elaborate the regulation and importance of gluconeogenesis. E | **Lecture** | Biochemistry | Prof Dr Sadia Amir | **Lippincott 7th dition chapter 10** |
| 23 | GIT-B-022 | Minerals | Describe sources, functions and biomedical importance of Mg, Se, I, F, Cu, Cr, Mn, Mo, Zn and Co. | **Lecture** | Biochemistry | Dr Sadia Khalil | Lippincott 7th edition chapter 29 |
| 24 | GIT-B -007,010 | Uronic acid Carbohydrate metabolism/ Gluconeogenesis pathway/ | Cori's Cycle Uronic Acid Path way, Glucose Alanine Cycle | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott 7th edition chapter 10,13 |
| 25 | GIT-B-009 | Carbohydrate metabolism/ Glycogen metabolism | Describe the reactions and regulation of Hexose Mono Phosphate Pathway (HMP). | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 13 Harper's 31st ed Ch= 20 |
| 26 | GIT-B-009 | Carbohydrate metabolism/ Glycogen metabolism | Discuss the importance of HMP shunt | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 13 Harper's 31st ed Ch= 20 |
| 27 | GIT-B-014 | Carbohydrate metabolism/ Glycogen metabolism | Explain how the free energy generated by the transport of electrons by ETC is used to produce ATP from ADP + Pi (i.e. chemiosmotic hypothesis) Elaborate the structure of ATP synthase (complex V). Elaborate the effect of oligomycin and uncouplers on ATP production. | **Lecture** | Biochemistry | Dr Sadia Khalil | Lippincott's 7th ed Ch = 6 Harper's 31st ed Ch= 17 |
| 28 | GIT-B-010 ,11 | Carbohydrate metabolism/ Metabolism of galactose & fructose | sorbitol pathway,Outline the reactions involved in metabolism of galactose and fructose.Infer the key biochemical and clinical features of galactosemia, essential fructosuria, and hereditary fructose intolerance (HFI) from the respective enzyme deficiencies. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 12 |
| 29 | GIT-B-011 | Carbohydrate metabolism/ Metabolism of galactose & fructose | Outline the reactions involved in metabolism of galactose , Lactose. Explain hypertriacylglycerolemia, hypercholesterolemia, and hyperuricemia associated with fructose loading of liver. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 12 |
| 30 | GIT-B-011 | Carbohydrate metabolism/ Metabolism of galactose & fructose | Outline the reactions involved in metabolism of galactose , Lactose. Explain hypertriacylglycerolemia, hypercholesterolemia, and hyperuricemia associated with fructose loading of liver. | **Lecture** | Biochemistry | Prof Dr Sadia Amir | Lippincott's 7th ed Ch = 12 |
| 31 | GIT-B-12 | Carbohydrate metabolism/ Ethanol metabolism | Outline the reactions involved in ethanol metabolism. Explain how ethanol consumption causes hypoglycemia and fatty liver. | **Lecture** | Biochemistry | Prof Dr Haroon Habib | Lippincott's 7th ed Ch = 8-13,23,25 |

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| | | | | | | | Harper's 31st ed Ch= 20 |
| 32 | GIT-B-1019 | Nutrition/ BMR | Categorize individuals into underweight, normal, overweight, obese, and morbidly obese based on theirs BMI values. Elaborate the role of genetic, environmental, and behavioral factors in determining body weight. Clearly differentiate between upper body obesity and lower body obesity. | **Lecture** | Biochemistry | Dr Yusra | Lippinincott 7th edition Chapter 26 |
| 33 | GIT-B-020 | Nutrition/ Caloric requirements | Categorize individuals into underweight, normal, overweight, obese, and morbidly obese based on theirs BMI values. Determine BMI of given subject and interpret the results.Elaborate the role of genetic, environmental, and behavioral factors in determining body weight. Clearly differentiate between upper body obesity and lower body obesity. Enlist health risks associated with obesity. | **Lecture** | Biochemistry | Dr Yusra | Lippincott 7th edition Chapter 26 |
| 34 | GIT-B-025 | Estimations of blood/urine analytes | Estimate blood glucose level by glucose oxidase method and interpret the results | **Practical** | Biochemistry | Dr Zahra/Dr Maryyam | Lab Manual |
| 35 | GIT-B-025 | Estimations of blood/urine analytes | Determine blood glucose level by glucometer | Practical | Biochemistry | Dr Aleena//Dr Seemal | Lab Manual |
| 36 | GIT-B-025 | Estimations of blood/urine analytes | Determine urine glucose by dipstick method and interpret the result. | Practical | Biochemistry | Dr Saba/Dr Seemal | Lab Manual |
| 37 | GIT-B-025 | Estimations of blood/urine analytes | Perform Glucose tolerance test (GTT) and interpret the results. | Practical | Biochemistry | Monday: Dr. Maryam Tuesday: Dr. Seemal Wednesday: Dr. Zahra Thursday: Dr. Aleena | Lab Manual |
| 38 | GIT-B-025 | Interpretation of results | Estimate serum amylase and interpret the result. | Practical | Biochemistry | Monday: Dr. Maryam Tuesday: Dr. Seemal Wednesday: Dr. Zahra Thursday: Dr. Aleena | Lab Manual |
| | GIT-B-026 | | | Practical | Biochemistry | Monday: Dr. Saba Tuesday: Dr. Misbah Wednesday: Dr. Asad Thursday: Dr. Hamza | Lab Manual |
| | GIT-B-027 | | | Practical | Biochemistry | Monday: Dr. Maryam Tuesday: Dr. | Lab Manual |

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| | | | | | | Seemal<br>Wednesday: Dr. Zahra<br>Thursday: Dr. Aleena | |

## PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS

| No. | Code | Topic | Learning Objective | Teaching strategy | Department | Faculty members | References |
|---|---|---|---|---|---|---|---|
| 1 | GIT-Ph-001 | Anti Diarrheal Drugs | Classify anti diarrheal drugs and describe the pharmacokinetics, mechanism of action, pharmacological effects, uses and adverse effects | lectures | Pharmacology | Prof. DR ASMA | Katzung ed.14,CH 59 |
| 2 | GIT-Pa-001 | GIT | Describe the etiology pathogenesis, morphology and clinical features of peptic ulcer disease. | Lecture | Pathology | Dr Nabila | Robbins pathologic basis of disease Chapter17 |
| 3 | GIT-Pa-002 | GIT | Enumerate the common infectious agents of diarrheal diseases.Discuss pathogenesis and clinical features of common pathogens. | Lecture | Pathology | Dr Majid | Robbins pathologic basis of disease Chapter17 |

## DISEASE PREVENTION & IMPACT

| No. | Code | Topic | Learning Objective | Teaching strategy | Department | Faculty members | References |
|---|---|---|---|---|---|---|---|
| 1 | GIT-B-016 | Nutrition/ Special Nutrition Requirements | Delineate special nutritional requirements during pregnancy, lactation, growth and old age | Lecture | Community Medicine (Integrated with Bio-Chem) | Dr. Usman Sheikh | K.PARK, 24th Edition, Chapter 11 Page no. 670-675 |
| 2 | GIT-B-016 | Nutrition/ Special Nutrition Requirements | Suggest dietary advice for patients suffering from diabetes mellitus, hypertension, obesity, renal diseases, lactose intolerance, gluten enteropathy, hypercholesterolemia and haemorrhoids. | Lecture | Community Medicine (Integrated with Bio-Chem) | Dr. Usman Sheikh | K.PARK, 24th Edition, Chapter Page no. 670-675 |
| 3 | GIT-B-017 | Nutrition/ PEM | Enlist causes and types of Protein Energy Malnutrition (PEM)<br>Differentiate between kwashiorkor and marasmus based on given data (Scenario)<br>Enlist symptoms and signs<br>Outline treatment strategies | Lecture | Community Medicine (Integrate with Peads) | Dr. Sana Noor | K.PARK, 24th Edition, Chapter 11, Page no. 675-691 |
| 4 | GIT-CM-001 | Preventive Medicine in Geriatrics | Identify causes and risk factors for malnutrition in elderly<br>Outline treatment strategies | Lecture | Community Medicine (Aging) | Dr. Usman Sheikh | K.PARK, 24th Edition, Chapter 10, Page no. 631-633 |
| 5 | GIT-CM-001 | Epidemiology of Communicable Diseases (Intestinal Infection) | Describe prevention and control of polio, vial hepatitis A, cholera, typhoid and food poisoning<br>Describe prevention and control of amoebiasis, ascariasis, hook worm infestation | Lecture | Community Medicine | Dr. Usman Sheikh | K.PARK, 24th Edition, Chapter 03 , Page no. 212-260 |

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| 6 | GIT-CM-002 | Preventive Medicine in Peadiatrics | Describe the advice to be given for breast feeding, weaning and childhood<br>Discuss risk factors, prevention and management of protein energy malnutrition (PEM) | Lecture | Community Medicine | Dr. Sana Noor | K.PARK, 24th Edition, Chapter11 , Page no. 675-683 |
| 7 | GIT-CM-003 | Nutrition and health | Describe balanced diet for adults and obesity<br>Plot and interpret growth chart for children under 5 years of age<br>Describe prevention and control of deficiency of vitamin A and D | Lecture | Community Medicine | Dr. Sana Noor | K.PARK, 24th Edition, Chapter 11 Page no. 646 - 656<br>Page no. 45 to 49 And 99<br>Page no. 45 to 49 And 99<br>Page no. , Page no. 45 to 49 |
| 8 | GIT-BhS-001 | Health related behaviors | Identify health related behaviors and apply principles of<br>learning to modify eating and addictive patterns | Lecture | Behavioral sciences | Dr Farhat | Integrated beh - sciences by Asma Humayun sec 4 |
| 9 | GIT-BhS-001 | Health related behaviors | Discuss health belief model and its application in managing common presentations related to gastrointestinal<br>system | Lecture | Behavioral sciences | Dr Farhat | Integrated beh - sciences by Asma Humayun sec 4 |
| 10 | GIT-BhS-002 | Transtheoretical model | Explain the transtheoretical model of changing behaviors<br>to modify the diseases pattern | Lecture | Behavioral sciences | Dr Farhat | Integrated beh - sciences by Asma Humayun sec 4 |
| 11 | GIT-BhS-003 | Management of Obesity | Describe motivational interviewing and outline a management plan to help the individuals with obesity and<br>diabetes to lose weight | Lecture | Behavioral sciences | Dr Farhat | Integrated beh - sciences by Asma Humayun sec 4 |
| 12 | GIT-BhS-004 | biopsychosocial model | Outline the principles of management plan according to<br>biopsychosocial model | Lecture | Behavioral sciences | Dr Farhat | Beh-sciences by M.RANA sec A |
| 13 | GIT-BhS-005 | Medically Un described Symptoms | Describe and distinguish Medically Un described Symptoms (MUS) | Lecture | Behavioral sciences | Dr Farhat | Beh-sciences by M.RANA sec E |

## Professionalism, Ethics, Research & Leadership (PERLs)

| No. | Code | Domain | Learning outcome | Attribute | Topic | Facilitator | Portfolio |
|---|---|---|---|---|---|---|---|
| 1 | PERL-2-1 | Professionalism | Develop a dress code for your class.<br>Demonstrate punctuality in attending classes | Responsible & Accountable | Dress code | DR Salar | Dress code |
| 2 | PERLs-2-2 | | Demonstrate improvement in one area of Weakness identified in the previous year | Self-Aware | SWOT analysis | Dr Laraib | Letter or certificate of accomplishment of a selfreflection |
| 3 | PERLs-2-2 | | Demonstrate improvement in one area of Weakness identified in the previous year | Self-Aware | Reflective writing | Dr Salar | As above |
| 4 | PERLs-2-3 | Ethics | Upgrade the portfolio with at least two academic and personal achievements in last one year | Digital Citizen | E-Portfolio | Dr Salar | Updated entries |
| 5 | PERLs-1 PERLs-2 | Professionalism | Demonstrate punctuality in attending classes | Responsible & Accountable | Importance of time | Dr Hassan | Attendance record |

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| 6 | PERLs-2-3 | Professionalism | Demonstrate improvement in one area of Weakness identified in the previous year | Self-Aware | Setting and tracking milestones in strategic planning | Dr Laraib | Self reflection |

## C-FRC

| No. | Skill | Objectives | Department | Millers Pyramid level reflected | Log book entries |
|---|---|---|---|---|---|
| 1 | Abdominal examination | Demonstrate steps of abdominal examination | Medicine | shows | Minimum 3 enteries |
| 2 | shifting dullness | Demonstrate the procedure of shifting dullness | Medicine | Shows | Minimum 3 enteries |
| 3 | X-ray Abdomen | Identify organs on X-ray abdomen | Medicine | Shows | Minimum 3 enteries |
| 4 | Dehydration | Assess dehydration in infant/young child and explain procedure of making homemade ORS | Medicine | Does | Minimum 3 enteries |

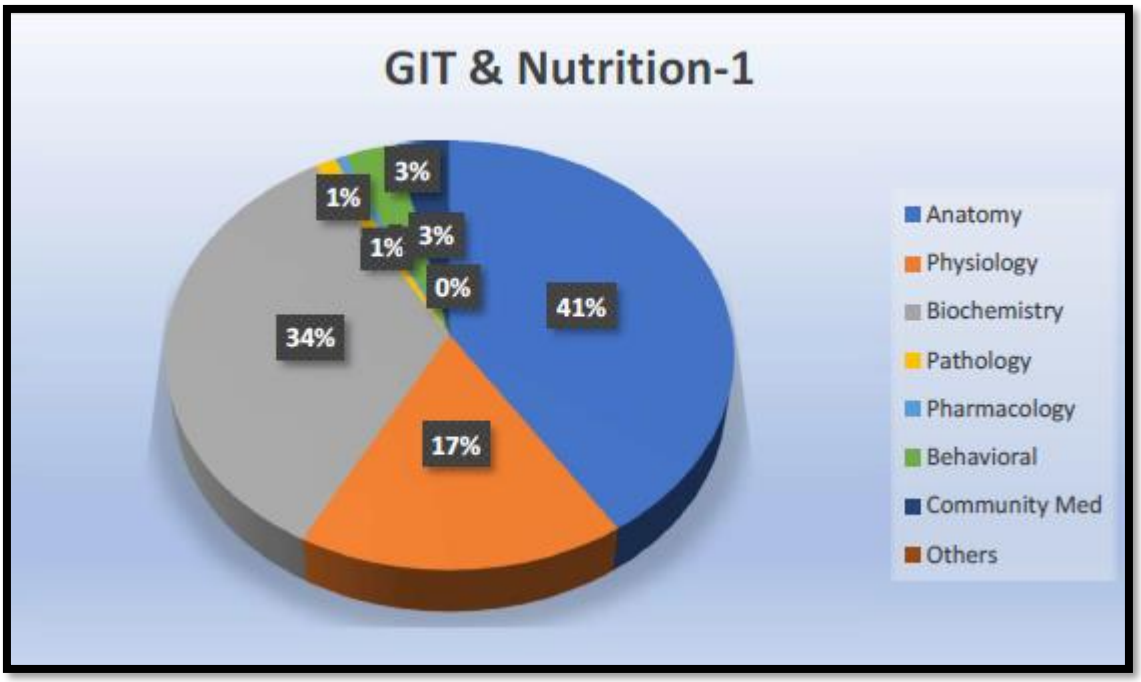
## HOLY QURAN

| | | | |
|---|---|---|---|
| 1 | Importance of the protection of Human life | i. Concept of the sanctity of human life in Quran and Sunnah<br>ii. Importance and significance of a single human being even during war<br>iii. Concept of punishment in regard to the killing of a human being, voluntarily or involuntarily | Amna Syed |
| 2 | Jihad | i. Concept of Jihad and its significance (hikmat)<br>ii. Different forms of Jihad and their importance<br>iii. Principles and preparation of Jihad<br>iv. Devine reward of Jihad | Amna Syed |

## PAKISTAN STUDIES

| | | | |
|---|---|---|---|
| 1 | Pakistan movement | Describe brief the salient features of the Pakistan movement | Amna Syed |

## 3.4 Distribution and duration of teaching activities amongst different disciplines




| **MODULE WEEKS** | **6** | **TOTAL HOURS** | **152** |
|---|---|---|---|
| Anatomy | 63 | Physiology | 26 |
| Biochemistry | 52 | Pathology | 2 |
| Pharmacology | 2 | Behavioral sciences | 5 |
| Community medicine | 5 | | |

# 4. Books and reading resources

**Anatomy**

- Snell's clinical anatomy by Regions.
- Langman's Medical Embryology 14th Edition
- Laiq H.S. Medical Histology. Paramount Books.
- Laiq H.S. General Anatomy. Paramount Books.

ADDITIONAL READING RESOURCES (only the pages mentioned in studyguide)

- Moore K.L. Clinically Oriented Anatomy. Baltimore, U.S.A. Williams and Wilkins:
- The Developing Human by K.L. Moore.
- General anatomy by Tasadduq Hussain

**Physiology**

• Guyton AC and Hall JE (2001). Textbook of Medical Physiology. 10th edition. W. B. Sunders & Co.,Philadelphia.

ADDITIONAL READING RESOURCES (only the pages mentioned in studyguide)

- Ganong's Review of Medical physiology
- Human Physiology from cell to system by Lauralae Sherwood

**Biochemistry**

• Champe, P.C. & Harvey, E.A. Biochemistry (Lippincott's Illustrated Reviews). J.B Lippincott Co.

• Robert K. Murray, Daryl K. Granner, Peter A. Mayes, Victor W. Rodwell. Harper's Biochemistry. McGraw-Hill.

• ABC of Clinical Genetics by H.M. Kingston.

**Pathology**

• Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pathologic basis of disease. WB Saunders.

• Richard Mitchall, Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases. Saunder Harcourt.

**Pharmacology**

• Basic and Clinical Pharmacology by Katzung, McGraw-Hill.

• Pharmacology by Champe and Harvey, Lippincott Williams & Wilkins

**Community medicine**

• Parks Textbook of Preventive and Social Medicine. K. Park (Editor)

• Public Health and Community Medicine, Ilyas, Ansari (Editors)

**OTHER LEARNING RECOURCES:**

- Hands-on Activities/ Practical:

Students will be involved in Practical sessions and hands-on activities that link with the foundation module to enhance the learning.

- Labs:

Utilize the lab to relate the knowledge to the specimens and models available.

- Skill Labs

A skills lab provides the simulators to learn the basic skills and procedures. This helps build the confidence to approach the patients.

- Videos

Video familiarize the student with the procedures and protocols to assist patients.

- Computer Lab/CDs/DVDs/Internet Resources:

To increase the knowledge students should utilize the available internet resources and CDs/DVDs. This will be an additional advantage to increase learning.

- Self-Learning:

Self-Learning is scheduled to search for information to solve cases, read through different resources and discuss among the peers and with the faculty to clarify the concepts.

## 4.1 LEARNING METHODOLOGIES

The following teaching/ learning methods are used to promote better understanding:

1. Integrated Didactic Lectures
2. Case based discussions- tutorials in small groups
3. Practicals
4. Integrated clinical seminar
5. Clinical Skills sessions and log books in hospital/clinical visits
6. E-Learning on Learning management system
7. Self-Directed Study
8. Student presentations
9. Portfolio

**Interactive lectures**: In large group, the lecturer introduces a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

**Hospital visits:** In small groups, students observe patients with signs and symptoms in hospital or clinical settings. This helps students to relate knowledge of basic and clinical sciences of the relevant module.

**Small group discussion (SGD):** This format helps students to clarify concepts acquire skills or attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials and self-study. The facilitator role is to ask probing questions, summarize, or re phrase to help clarify concepts.

**Team-based learning:** A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions applying relevant knowledge gained in clinical and basic health sciences during the module.

a) **Preparation before class:** Students must complete preparatory materials before a class or the start of the module. Materials may be text, visual or other, and set at a level that is appropriate to the students and the course.

b) **In-class Readiness Assurance Testing:** Students complete an individual readiness assurance test (IRAT), consisting of 5 to 20 multiple choice questions. After submitting their individual answers, and they take the same test, the team RAT (TRAT), with their

team. All members of each team share the same TRAT score, and both IRAT and TRAT scores count toward the students' grades.

c) **Reflective Writing:** Students will write reflective essays for the activities and tasks of the Professionalism, Ethics, Research and Leadership (PERLs) programme for each module and block.

d) The students will develop a Portfolio of the PERLs activities and tasks as assignments and reflective essay

e) **Instructor Feedback**: The instructor reviews material from the RAT that seems to be difficult for students.

f) **In-class application focused exercise:** The remainder of the session is taken up with exercises that help students learn how to apply and extend the knowledge that they have pre-learned and tested. Teams are given an appropriate problem or challenge, and must arrive at a consensus to choose a "best" solution out of options provided. Teams then display their answer choice, and the educator facilitates a classroom discussion between teams to explore the topic and the possible answers to the problem.

**Practical:** Basic science practicals related to anatomy, biochemistry, pathology, pharmacology and physiology are scheduled for student learning.

**Clinical skills session:** Clinical Skills relevant to respective module are observed and practiced where applicable in hospital settings, clinical skills laboratory or Department of Physiotherapy.

**Self-directed study:** Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self-study.

**E-learning:** E-Learning is a strategy by which learning occurs through the utilization of electronic media, typically the Internet. The basic aspects of medical professionalism and ethics will be addressed through an e-learning course.

**Seminar:** A seminar in medical education is an educational activity that is designed to provide a platform for discussion, debate, and exchange of ideas among participants.

# 5. TIMETABLES

Week : 1

Theme: Oral cavity

| TIME TABLE M-22 | | 2nd Year MBBS Finalized | SESSION 2023-2024 | | | | | Week-1 | BLOCK:4 MODULE:6 THEME:Oral cavity & Esophagus (O &E) |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | |
| 04-Mar-24 | MON | LECTURE ANATOMY-1 GIT-A-001 Oral Cavity and Esophagus Dr. Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY-1 GIT-B-001 Biochemistry of GIT Dr Yusra LECTURE HALL2 | LECTURE PHYSIOLOGY-1 GIT-P-001 General Principles of GIT Function- Motlilty, Nervous Control & Blood Flow Dr Nida LECTURE HALL 2 | LECTURE EMBRYOLOGY-1 GIT-A-014 Oral Cavity Prof.Dr. Razia LECTURE HALL 2 | B R E A K | SGD/SDL BATCH A :ANATOMY TUTORIAL ROOM Dr. Shazia/Dr.Madiha BATCH B: HISTOLOGY TUTORIAL ROOM Dr Nosheen BATCH C: BIOCHEMISTRY TUTORIAL ROOM Dr Hamza/Dr Misbah NEW BUILDING GROUND FLOOR | PRACTICAL BATCH A:ANATOMY LAB Demo BATCH B:HISTOLOGY LAB Dr Shazia/Dr.Madiha BATCH C:PHYSIOLOGY LAB Dr Rabiya BATCH D: BIOCHEMISTRY LAB Dr Zahra/Dr Maryyam NEW BUILDING GROUND FLOOR | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | |
| 05-Mar-24 | TUE | LECTURE BIOCHEMISTRY-2 GIT-B-001 Biochemistry of GIT Dr Yusra LECTURE HALL2 | LECTURE ANATOMY-2 GIT-A-001 Oral Cavity and Esophagus Prof.Dr. Razia LECTURE HALL 2 | LECTURE BEH.SCIENCES-1 Health related behavior Dr Farhat LECTURE HALL 2 | LECTURE HITOLOGY-1 GIT-A-018 Oral Cavity & Esopaghus Dr. Madiha LECTURE HALL 2 | | SGD/SDL BATCH B : ANATOMY TUTORIAL ROOM Dr. Shazia/Dr.Madiha BATCH C: HISTOLOGY TUTORIAL ROOM Dr Nosheen BATCH A: BIOCHEMISTRY TUTORIAL ROOM Dr Hamza/Dr Misbah NEW BUILDING GROUND FLOOR | BATCH B: ANATOMY LAB Dr. Shazia/Dr.Madiha BATCH C: PHYSIOLOGY LAB Dr Rabiya BATCH A: BIOCHEMISTRY LAB Dr Zahra/Dr Maryyam NEW BUILDING GROUND FLOOR | |
| 06-Mar-24 | WED | Sports Day | | | | | | | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 07-Mar-24 | THU | LECTURE PHYSIOLOGY -2 HYSIOLOGY-1 GIT-P-001 General Principles of GIT Function- Motlilty, Nervous Control & Blood Flow Dr Madiha LECTURE HALL 2 | LECTURE ANATOMY-3 GIT-A-001 Oral Cavity and Esophagus Prof.Dr. Razia LECTURE HALL 1 | LECTURE COM.MEDICINE-1 GIT-B-016 Nutrition /Special nutritional req. for different dis. Dr.Usman/Dr.Sana LECTURE HALL 2 | LECTURE MEDICINE int Phy -1 GIT-P-003 Stomach Dr. Salman Nasrullah LECTURE HALL 2 | B R E A K | LECTURE BIOCHEMISTRY-3 GIT-B-001 Biochemistry of GIT Dr Yusra LECTURE HALL2 | PRACTICAL BATCH C: ANATOMY LAB Dr. Shazia/Dr.Madiha BATCH A: ANATOMY LAB Dr. Shazia/Dr.Madiha BATCH A: PHYSIOLOGY LAB Dr Rabiya BATCH B: BIOCHEMISTRY LAB Dr Zahra/Dr Maryyam NEW BUILDING GROUND FLOOR | CLINICAL SKILL (IN 5 BATCHES) A:Ground Floor Gyn Tutorial Room (Abdominal Examination ) B:1st Floor hospital Tutorial Room-1 (Abdominal Examination ) C:Skill Floor Lecture Hall (Abdominal Examination ) D:Skill Floor IV Room (Abdominal Examination ) E:Skill Floor CPR Room (Abdominal Examination ) |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-10.30 | 10.30-11.30 | 11.30-12.30 | | | |
| 08-Mar-24 | FRI | LECTURE ANATOMY-4 GIT-A-001 Oral Cavity and Esophagus Dr. Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY-4 GIT-B-001 Biochemistry of GIT Dr Yusra LECTURE HALL 2 | B R E A K | LECTURE BIOCHEMISTRY-5 GIT-B-021 Vitamins/ Energy releasing vitamins & vitamin E and K Dr Yusra LECTURE HALL 2 | LECTURE PHYSIOLOGY -3 GIT-P-001 General Principles of GIT Function- Motlilty, Nervous Control & Blood Flow Dr Madiha LECTURE HALL 2 | | | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 09-Mar-24 | SAT | LECTURE BIOCHEMISTRY-5 GIT-B-021 Vitamins/ Energy releasing vitamins & vitamin E and K Dr Yusra LECTURE HALL 2 | LECTURE PHYSIOLOGY -4 GIT-P-001 General Principles of GIT Function- Motlilty, Nervous Control & Blood Flow Dr Nida LECTURE HALL 2 | LECTURE ANATOMY-5 GIT-A-001 Oral Cavity and Esophagus Dr. Kalsoom LECTURE HALL 2 | LECTURE HOLY QURAN-1 Importance of the protection of Human life Amna Syed LECTURE HALL 2 | B R E A K | PRACTICAL BATCH D:ANATOMY LAB Dr. Shazia/Dr.Madiha BATCH A:HISTOLOGY LAB Dr. Shahida BATCH B:PHYSIOLOGY LAB Dr Rabiya BATCH C: BIOCHEMISTRY LAB Dr Zahra/Dr Maryyam | SGD/SDL BATCH C : ANATOMY TUTORIAL ROOM Dr. Shazia/Dr.Madiha BATCH B: PHYSIOLOGY TUTORIAL ROOM Dr Rabiya BATCH B: BIOCHEMISTRY TUTORIAL ROOM Dr Hamza/Dr Misbah NEW BUILDING GROUND FLOOR | CLINICAL SKILL (IN TEN BATCHES) A:Ground Floor Gyn Tutorial Room (Abdominal Examination ) B:1st Floor hospital Tutorial Room-1 (Abdominal Examination ) C:Skill Floor Lecture Hall (Abdominal Examination ) D:Skill Floor IV Room (Abdominal Examination ) E:Skill Floor CPR Room (Abdominal Examination ) |
| Prepared by DME | | | Principal Prof.Dr.Gulfreen Waheed | | Date: 2 March ,2024 | | | | |

# TIMETABLES

Week : 2

Theme: Walls of Abdomen & Peritoneum

| TIME TABLE M-22 | | 2nd Year MBBS Finalized | SESSION 2023-2024 | | | | | Week-2 | BLOCK :4 MODULE:6 THEME:Walls of Abdomen & Peritoneum |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 11-Mar-24 | MON | LECTURE BIOCHEMISTRY GIT-B-004 Carbohydrate metabolism/ Glycolysis Prof Dr Sadia Amir LECTURE HALL2 | LECTURE ANATOMY GIT-A-001 Oral Cavity and Dr. Kalsoom LECTURE HALL 2 | LECTURE EMBRYOLOGY GIT-A-014 Oral Cavity Prof.Dr. Razia LECTURE HALL 2 | LECTURE PERLs Discussion on OSCE of previous exam Dr. Salar LECTURE HALL 2 | | LECTURE SURGERY Code:GIT-P-002 Enlist causes of dysphagia Dr Omer Zahid LECTURE HALL 2 | PRACTICAL BATCH A:ANATOMY LAB Demo BATCH B:HITOLOGY LAB Dr Shazia/Dr.Madiha BATCH C:PHYSIOLOGY LAB Dr Rahiyl BATCH D: BIOCHEMISTRY LAB Dr.Maryam | SDL |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 12-Mar-24 | TUE | LECTURE ANATOMY GIT-A-002 Anterior Abdominal Wall Dr.Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-004 Carbohydrate metabolism/ Glycolysis Prof Dr Sadia Amir LECTURE HALL2 | LECTURE BEH.SCIENCES GIT-BhS003 Management of obesity Dr.Farhat LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-022 Nutrition Dr Sadia Khalil LECTURE HALL 2 | B R E A K | PRACTICAL BATCH B:ANATOMY LAB Dr. Shazia/Dr. Madiha BATCH C:PHYSIOLOGY LAB Dr. Shazia/Dr. Madiha BATCH D:PHYSIOLOGY LABDr Rahiyl BATCH A: BIOCHEMISTRY LAB Dr Seemal. | TUTORIAL BATCH A:ANATOMY Dr. Shazia/Dr. Madiha BATCH B:HITOLOGYDr. Shazia/Dr. Madiha BATCH C:PHYSIOLOGY Dr.Rahiyl BATCH D: BIOCHEMISTRY Dr.Maryam. | SDL |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 13-Mar-24 | WED | LECTURE BIOCHEMISTRY GIT-B-004 Carbohydrate metabolism/ Glycolysis Prof Dr Sadia Amir LECTURE HALL2 | LECTURE ANATOMY GIT-A-002 Anterior Abdominal Wall Prof.Dr. Razia LECTURE HALL 2 | LECTURE COM.MEDICINE GIT-B-017 Kwashiorkor and marasmus Prof. Dr.Tabassum LECTURE HALL 2 | LECTURE MEDICINE GIT-P-004 Small Intestine Dr Salman Nasrullah LECTURE HALL 2 | | PRACTICAL BATCH C:ANATOMY LAB Dr. Shazia/Dr. Madiha BATCH D:HISTOLOGY LAB Dr. Shazia/Dr. Madiha BATCH A:PHYSIOLOGY LAB Dr Rahiyl BATCH B: BIOCHEMISTRY LABDr Zara. | TUTORIAL BATCH B:ANATOMY Dr. Shazia/Dr. Madiha BATCH C:HITOLOGY Dr. Shazia/Dr. Madiha BATCH A:PHYSIOLOGY Dr.Rahiyl BATCH A: BIOCHEMISTRY Dr Seemal. | SDL |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 14-Mar-24 | THU | LECTURE PHYSIOLOGY GIT-P-002 Oral Cavity & Esophagus Dr. Nida LECTURE HALL 2 | LECTURE ANATOMY GIT-A-002 Anterior Abdominal Wall Prof.Dr. Razia LECTURE HALL 2 | LECTURE PATHOLOGY (GIT-Pa-001) Peptic Ulcer Dr Nabila LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-003 Carbohydrate metabolism/ Hormonal control of BSL Prof Dr Sadia Amir LECTURE HALL 2 | | PRACTICAL BATCH D:ANATOMY LAB Dr. Shazia/Dr. Madiha BATCH A:HITOLOGY Dr. Shazia/Dr. Madiha BATCH B:PHYSIOLOGY LAB Dr. Rahiyl BATCH C: BIOCHEMISTRY LAB Dr Aleena | TUTORIAL BATCH C:ANATOMY Dr. Shazia/Dr. Madiha BATCH D:HITOLOGY Dr. Shazia/Dr. Madiha BATCH B:PHYSIOLOGY Dr.Rahiyl BATCH B: BIOCHEMISTRY Dr Zara. | CLINICAL SKILL (IN 5 BATCHES) A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Shifting dullness ) B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Shifting dullness ) C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Shifting dullness ) D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Shifting dullness ) E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Shifting dullness ) |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-10.30 | 10.30-11.30 | 11.30-12.30 | 12.30-2.30 | | |
| 15-Mar-24 | FRI | LECTURE ANATOMY GIT-A-002 Anterior Abdominal Wall Dr.Kalsoom LECTURE HALL 2 | LECTURE PHYSIOLOGY GIT-P-003 Stomach Prof. Dr.Sadia LECTURE HALL 2 | B R E A K | LECTURE BIOCHEMISTRY GIT-B-013 Respiratory chain & oxidative phosphorylation /ETC Dr Sadia Khalil LECTURE HALL2 | LECTURE PHYSIOLOGY GIT-P-003 Stomach Dr.Afsheen LECTURE HALL 2 | JUMMA BREAK | | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 16-Mar-24 | SAT | LECTURE HISTOLOGY GIT-A-018 Oral Cavity & Esopaghus Dr.Madiha LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-0045 Carbohydrate metabolism/ Metabolic fates of pyruvate Prof Dr Sadia Amir LECTURE HALL2 | LECTURE PHYSIOLOGY GIT-P-003 Stomach Dr.Afsheen LECTURE HALL 2 | LECTURE PERLs Personal SWOT Analysis Dr.Laraib Qamar LECTURE HALL 2 | B R E A K | LECTURE PERLs Personal SWOT Analysis Dr.Laraib Qamar LECTURE HALL 2 | TUTORIAL BATCH D:ANATOMY Dr. Shazia/Dr. Madiha BATCH A:HITOLOGY Dr. Shazia/Dr. Madiha BATCH B:PHYSIOLOGY Dr.Rahiyl BATCH C: BIOCHEMISTRY Dr Aleena | CLINICAL SKILL (IN 5 BATCHES) A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Shifting dullness ) B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Shifting dullness ) C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Shifting dullness ) D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Shifting dullness ) E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Shifting dullness ) |

Prepared by DME Principal Prof.Dr.Gulfreen Waheed Date: 9 March,2024

# TIMETABLES

Week : 3

Theme: Stomach

| TIME TABLE M-22 | | 2nd Year MBBS Finalized | SESSION 2023-2024 | | | | | Week-3 | BLOCK:4 MODULE:6 THEME: Stomach |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 18-Mar-24 | MON | LECTURE BIOCHEMISTRY<br>GIT-B-007<br>Carbohydrate metabolism/ Gluconeogenesis<br>Prof Dr Sadia Amir<br>LECTURE HALL2 | LECTURE ANATOMY<br>GIT-A-002<br>Anterior Abdominal Wall<br>Dr. Kalsoom<br>LECTURE HALL 2 | LECTURE PHYSIOLOGY<br>GIT-P-004<br>Small intestine<br>Prof. Dr.Sadia<br>LECTURE HALL 2 | LECTURE<br>PHARMACOLOGY<br>GIT-Ph-001<br>Anti Diarrheal Drugs<br>Prof.Asma<br>LECTURE HALL2 | B<br>R<br>E<br>A<br>K | LECTURE BIOCHEMISTRY<br>GIT-B-0045<br>Carbohydrate metabolism/ Metabolic fates of pyruvate<br>Dr Sadia Khalil<br>LECTURE HALL2 | TUTORIAL<br>BATCH A:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH B:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH C:PHYSIOLOGY Dr.Faiza<br>BATCH D:<br>BIOCHEMISTRY Dr.Maryam. | CLINICAL SKILL (IN 5 BATCHES)<br>A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Identify organs on x-ray abdomen )<br>B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Identify organs on x-ray abdomen )<br>C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Identify organs on x-ray abdomen)<br>D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Identify organs on x-ray abdomen )<br>E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Identify organs on x-ray abdomen ) |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 19-Mar-24 | TUE | LECTURE ANATOMY<br>GIT-A-004<br>Peritoneum<br>Dr. Kalsoom<br>LECTURE HALL 2 | LECTURE BIOCHEMISTRY<br>GIT-B -007,010<br>Uronic acid Carbohydrate metabolism/ Gluconeogenesis pathway<br>Prof Dr Sadia Amir<br>LECTURE HALL2 | LECTURE EMBRYOLOGY<br>GIT-A-015<br>Foregut<br>Prof. Dr. Razia<br>LECTURE HALL 2 | PRACTICAL<br>BATCH A:ANATOMY LAB Demo<br>BATCH B:HITOLOGY LAB Dr. Shazia/Dr.Madiha<br>BATCH C:PHYSIOLOGY LAB Dr Rabiya<br>BATCH D:<br>BIOCHEMISTRY LAB Dr.Maryam | | LECTURE<br>BEH.SCIENCES<br>Health belief model and trastheoretical model<br>Dr Farhat<br>LECTURE HALL 2 | TUTORIAL<br>BATCH B:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH C:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH D:PHYSIOLOGY Dr.Faiza<br>BATCH A:<br>BIOCHEMISTRY Dr Seemal. | CLINICAL SKILL (IN 5 BATCHES)<br>A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Identify organs on x-ray abdomen )<br>B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Identify organs on x-ray abdomen )<br>C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Identify organs on x-ray abdomen)<br>D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Identify organs on x-ray abdomen )<br>E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Identify organs on x-ray abdomen ) |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 20-Mar-24 | WED | LECTURE BIOCHEMISTRY<br>GIT-B-022<br>Minerals<br>Dr Sadia Khalil<br>LECTURE HALL2 | LECTURE ANATOMY<br>GIT-A-004<br>Peritoneum<br>Prof. Dr. Razia<br>LECTURE HALL 2 | LECTURE HISTOLOGY<br>GIT-A-018<br>Oral Cavity & Esopaghus<br>Dr. Madiha<br>LECTURE HALL 2 | LECTURE PHYSIOLOGY<br>GIT-P-004<br>Small intestine<br>Dr.Shaheena<br>LECTURE HALL 2 | | TUTORIAL<br>BATCH C:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH D:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH A:PHYSIOLOGY Dr.Faiza<br>BATCH B:<br>BIOCHEMISTRY Dr Zara. | PRACTICAL<br>BATCH B:ANATOMY LAB Dr. Shazia/Dr. Madiha<br>BATCH C:HITOLOGY LAB Dr. Shazia/Dr. Madiha<br>BATCH D:PHYSIOLOGY LABDr. Rabiya<br>BATCH A:<br>BIOCHEMISTRY LAB Dr Seemal. | SDL |
| | | 8.00-10.00 | | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 21-Mar-24 | THU | GRAND TEST-1<br>EXAMINATION HALL-1 | | KEY DISCUSSION<br>LECTURE HALL 2 | LECTURE PHYSIOLOGY<br>GIT-P005<br>Small intestine<br>Dr.Shaheena<br>LECTURE HALL 2 | | TUTORIAL<br>BATCH D:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH A:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH B:PHYSIOLOGY Dr.Faiza<br>BATCH C:<br>BIOCHEMISTRY Dr Aleena | PRACTICAL<br>BATCH C:ANATOMY LAB Dr. Shazia/Dr. Madiha<br>BATCH D:HITOLOGY LAB Dr. Shazia/Dr. Madiha<br>BATCH A:PHYSIOLOGY LAB Dr. Rabiya<br>BATCH B:<br>BIOCHEMISTRY LABDr Zara. | SDL |
| | | 8.00-10.00 | | 10.00-10.30 | 10.30-11.30 | 11.30-12.30 | 12.30-2.30 | | 2.30-3.30 |
| 22-Mar-24 | FRI | OSPE/VIVA | | BREAK | LECTURE<br>SURGERY INT PHYSIOLOGY<br>GIT-P- 002+006<br>Causes and composition of gall stone<br>Dr Shehzina Tariq<br>LECTURE HALL 2 | PRACTICAL<br>BATCH D:ANATOMY LAB Dr. Shazia/Dr. Madiha<br>BATCH A:HITOLOGY Dr. Shazia/Dr. Madiha<br>BATCH B:PHYSIOLOGY LAB Dr. Rabiya<br>BATCH C:<br>BIOCHEMISTRY LAB Dr Aleena | JUMMA BREAK | | SDL |
| 23-Mar-24 | SAT | PAKISTAN DAY HOLIDAY | | | | | | | |
| Prepared by DME | | | Principal Prof.Dr.Gulfreen Waheed | | Date:15 March,2024 | | | | |

# TIMETABLES

Week : 4

Theme: Small Intestine

| TIME TABLE M-22 | | 2nd Year MBBS Finalized | SESSION 2023-2024 | | | | | Week-4 | BLOCK :4 MODULE:6 THEME: Small intestine |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 25-Mar-24 | MON | LECTURE PHYSIOLOGY GIT-P-005 Large Intestine Dr. Madiha LECTURE HALL 2 | LECTURE ANATOMY GIT-A-005 Esophagu Dr. Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-008 Carbohydrate metabolism/ Glycogen metabolism Prof Dr Sadia Amir LECTURE HALL2 | LECTURE EMBRYOLOGY GIT-A-015 Foregut Prof Dr. Razia LECTURE HALL 2 | B R E A K | LECTURE HOLY QURAN Jihad Amna Syed LECTURE HALL 2 | TUTORIAL BATCH A:ANATOMY Dr. Shazia/Dr. Madiha BATCH B:EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH C:PHYSIOLOGY Dr.Faiza BATCH D: BIOCHEMISTRYDr. Saba | CLINICAL SKILL (IN 5 BATCHES) A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Assess dehydration in infant young children ) B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Assess dehydration in infant young children ) C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Assess dehydration in infant young children ) D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Assess dehydration in infant young children ) E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Assess dehydration in infant young children ) |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 26-Mar-24 | TUE | LECTURE ANATOMY GIT-A-006 Stomach Dr. Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-008 Carbohydrate metabolism/ Glycogen metabolism Prof Dr Sadia Amir LECTURE HALL2 | LECTURE PHYSIOLOGY GIT-P-005 Large Intestine Dr.Afsheen LECTURE HALL 2 | PRACTICAL BATCH A:ANATOMY LAB Demo BATCH B:HITOLOGY LAB Demo BATCH C:PHYSIOLOGY LAB Dr Rabiya BATCH D: BIOCHEMISTRY LAB Dr. Saba | | LECTURE BEH.SCIENCES GIT-BhS-004 Medically Un described Symptoms Dr.Farhat LECTURE HALL 2 | TUTORIAL BATCH B:ANATOMY Dr. Shazia/Dr. Madiha BATCH C:EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH D:PHYSIOLOGY Dr.Faiza BATCH A: BIOCHEMISTRY Dr. Misbah | CLINICAL SKILL (IN 5 BATCHES) A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Assess B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Assess C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Assess D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Assess E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Assess |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | |
| 27-Mar-24 | WED | LECTURE BIOCHEMISTRY GIT-B-013 Respiratory chain & oxidative phosphorylation /ETC Dr Sadia khalil LECTURE HALL2 | LECTURE ANATOMY GIT-A-007 Small & Large Intestine Dr. Kalsoom LECTURE HALL 2 | LECTURE MEDICINE INT WITH PHYSIOLOGY GIT-P-005,GIT-P-009 GIT-P-010 (Large Intestine) (Malnutrition) (Acute & chronic Diarrhea) Dr.Salman LECTURE HALL 2 | LECTURE EMBRYOLOGY GIT-A-015 Foregut Prof Dr. Razia LECTURE HALL 2 | | TUTORIAL BATCH C:ANATOMY Dr. Shazia/Dr. Madiha BATCH D:EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH A:PHYSIOLOGY Dr.Faiza BATCH B: BIOCHEMISTRY Dr. Asad | PRACTICAL BATCH B:ANATOMY LAB Demo BATCH C:HITOLOGY LAB DDemo BATCH D:PHYSIOLOGY LABDr. Rabiya BATCH A: BIOCHEMISTRY LAB Dr. Misbah | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | |
| 28-Mar-24 | THU | LECTURE BIOCHEMISTRY GIT-B-008 Carbohydrate metabolism/ Glycogen metabolism Prof Dr Sadia Amir LECTURE HALL2 | LECTURE ANATOMY GIT-A-007 Small & Large Intestine Prof Dr. Razia LECTURE HALL 2 | LECTURE PHYSIOLOGY GIT-P-005 Large Intestine Dr. Madiha LECTURE HALL 2 | LECTURE PERLs Reflective writing Dr.Salar LECTURE HALL 2 | | TUTORIAL BATCH D:ANATOMY Dr. Shazia/Dr. Madiha BATCH A:EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH B:PHYSIOLOGY Dr.Faiza BATCH C: BIOCHEMISTRY Dr. Hamza | PRACTICAL BATCH C:ANATOMY LAB Demo BATCH D:HITOLOGY LAB Demo BATCH A:PHYSIOLOGY LAB Dr. Rabiya BATCH B: BIOCHEMISTRY LAB Dr. Asad | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-10.30 | 10.30-11.30 | 11.30-12.30 | | | |
| 29-Mar-24 | FRI | LECTURE HISTOLOGY GIT-A-019 Stomach Dr. Madiha LECTURE HALL 2 | LECTURE PHYSIOLOGY GIT-P-005 Liver Dr. Shaheena LECTURE HALL 2 | B R E A K | LECTURE COM.MEDICINE GIT-CM-001 Preventive medicine in Geriatrics in relation to malnutrition and its managemnet Prof. Tabassum LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-013 Respiratory chain & oxidative phosphorylation /ETC Dr Sadia Khalil LECTURE HALL2 | | | |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 30-Mar-24 | SAT | LECTURE PHYSIOLOGY GIT-P-002 Oral Cavity & Esophagus Dr.Javaid Shabkhez LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-009 Carbohydrate metabolism/ Glycogen metabolism Prof Dr Sadia Amir LECTURE HALL2 | LECTURE ANATOMY GIT-A-007 Small & Large Intestine Dr. Kalsoom LECTURE HALL 2 | LECTURE PERLs E-Portfolio Dr.Salar LECTURE HALL 2 | B R E A K | LECTURE PAK. STUDIES . Describe brief the salient features of the Pakistan movement. Amna Syed LECTURE HALL 2 | PRACTICAL BATCH D:ANATOMY LAB Demo BATCH A:HITOLOGY Demo BATCH B:PHYSIOLOGY LAB Dr. Rabiya BATCH C: BIOCHEMISTRY LAB Dr. Hamza | |
| Prepared by DME | | | Principal Prof.Dr.Gulfreen Waheed | | Date: 22 March ,2024 | | | | |

# TIMETABLES

Week : 5

Theme: Large intestine (Cecum, Appendix, Colon, Rectum & Anal Canal)

| TIME TABLE M-22 | | 2nd Year MBBS Finalized | SESSION 2023-2024 | | | | | BLOCK:4 MODULE:6 THEME: Large intestine (Cecum, Appendix, Colon, Rectum & Anal Canal) | |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 1-Apr-24 | MON | LECTURE ANATOMY<br>GIT-A-007<br>Small & Large Intestine<br>Dr. Kalsoom<br>LECTURE HALL 2 | LECTURE<br>BIOCHEMISTRY<br>GIT-B-009<br>Carbohydrate metabolism/ Glycogen metabolism<br>Prof Dr Sadia Amir<br>LECTURE HALL 2 | LECTURE PATHOLOGY<br>GIT-Pa-002<br>Infectious agents causing dirrhoea<br>Dr Majid Rauf<br>LECTURE HALL 2 | TUTORIAL<br>BATCH A:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH B:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH C:PHYSIOLOGY Dr. Beenish<br>BATCH D:<br>BIOCHEMISTRY Dr. Saba | BREAK | LECTURE MEDICINE<br>GIT-P-007<br>Pancreas<br>Dr.Salman Nasrullah<br>LECTURE HALL 2 | PRACTICAL<br>BATCH A:ANATOMY LAB Demo<br>BATCH B:HITOLOGY LAB Demo<br>BATCH C:PHYSIOLOGY LAB Dr. Navaira<br>BATCH D:<br>BIOCHEMISTRY LAB Dr. Saba | CSIM (IN 5 BATCHES)<br>A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Assess dehydration in infant young children )<br>B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Assess dehydration in infant young children )<br>C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Assess dehydration in infant young children )<br>D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Assess dehydration in infant young children )<br>E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Assess dehydration in infant young children ) |
| 2-Apr-24 | TUE | 8.00-9.00<br>LECTURE BIOCHEMISTRY<br>GIT-B-009<br>Carbohydrate metabolism/ Glycogen metabolism<br>Prof Dr Sadia Amir<br>LECTURE HALL 2 | 9.00-10.00<br>LECTURE PHYSIOLOGY<br>R-P-001<br>Renal/Body Fluids<br>Dr. Afsheen<br>LECTURE HALL 2 | 10.00-11.00<br>LECTURE ANATOMY<br>GIT-A-008<br>Liver<br>Dr. Kalsoom<br>LECTURE HALL 2 | 11.00-12.00<br>PRACTICAL<br>BATCH B:ANATOMY LAB Demo<br>BATCH C:HITOLOGY LAB Demo<br>BATCH D:PHYSIOLOGY LAB Dr. Navaira<br>BATCH A:<br>BIOCHEMISTRY LAB Dr. Misbah | | 12.30-1.30<br>LECTURE BEH.SCIENCES<br>GIT-BhS-004<br>Medically Un described Symptoms<br>Dr.Farhat<br>LECTURE HALL 2 | 1.30-2.30<br>TUTORIAL<br>BATCH B:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH C:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH D:PHYSIOLOGY Dr. Beenish<br>BATCH A:<br>BIOCHEMISTRY Dr. Misbah | 2.30-3.30<br>CLINICAL SKILL (IN 5 BATCHES)<br>A:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-1 (Assess dehydration in infant young children )<br>B:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-2 (Assess dehydration in infant young children )<br>C:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-3 (Assess dehydration in infant young children )<br>D:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-4 (Assess dehydration in infant young children )<br>E:Abdul Waheed Institute of ofAllied Health Sciences Lecture Hall-5 (Assess dehydration in infant young children ) |
| 3-Apr-24 | WED | 8.00-9.00<br>LECTURE PHYSIOLOGY<br>GIT-P-008/R-P-001<br>Vomiting R/Renal Start<br>Dr. Nida<br>LECTURE HALL 2 | 9.00-10.00<br>LECTURE<br>EMBRYOLOGY<br>GIT-A-015<br>Foregut<br>Prof Dr. Razia<br>LECTURE HALL 2 | 10.00-11.00<br>LECTURE BIOCHEMISTRY<br>GIT-B-014<br>Carbohydrate metabolism/ Glycogen metabolism<br>Dr Sadia Khalil<br>LECTURE HALL 2 | 11.00-12.00<br>LECTURE<br>COM.MEDICINE<br>GIT-CM-001<br>Prevention of CDS (GIT<br>Dr Usman<br>LECTURE HALL 2 | | 12.30-1.30<br>TUTORIAL<br>BATCH C:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH D:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH A:PHYSIOLOGY Dr. Beenish<br>BATCH B:<br>BIOCHEMISTRY Dr. Asad | 1.30-2.30<br>PRACTICAL<br>BATCH C:ANATOMY LAB Demo<br>BATCH D:HITOLOGY LAB Demo<br>BATCH A:PHYSIOLOGY LAB Dr. Navaira<br>BATCH B:<br>BIOCHEMISTRY LAB Dr. Asad | 2.30-3.30<br>SDL<br>INTEGRATED |
| 4-Apr-24 | THU | 8.00-9.00<br>LECTURE ANATOMY<br>GIT-A-008<br>Liver<br>Dr. Kalsoom<br>LECTURE HALL 2 | 9.00-10.00<br>LECTURE PHYSIOLOGY<br>GIT-P-008/R-P-001<br>Vomiting R/Renal Start<br>Dr. Nida<br>LECTURE HALL 2 | 10.00-11.00<br>LECTURE ANATOMY<br>GIT-A-012<br>Rectum and Anal Canal<br>Prof Dr. Razia<br>LECTURE HALL 2 | 11.00-12.00<br>LECTURE BIOCHEMISTRY<br>GIT-B-009<br>Carbohydrate metabolism/ HMP Hexose Monophosphate Pathway<br>Prof Dr Sadia Amir<br>LECTURE HALL 2 | | 12.30-1.30<br>TUTORIAL<br>BATCH D:ANATOMY Dr. Shazia/Dr. Madiha<br>BATCH A:EMBRYOLOGY Dr. Shazia/Dr. Madiha<br>BATCH B:PHYSIOLOGY Dr. Beenish<br>BATCH C:<br>BIOCHEMISTRY Dr. Hamza | 1.30-2.30<br>PRACTICAL<br>BATCH D:ANATOMY LAB Demo<br>BATCH A:HITOLOGY Demo<br>BATCH B:PHYSIOLOGY LAB Dr. Rabiya<br>BATCH C:<br>BIOCHEMISTRY LAB Dr. Hamza | 2.30-3.30<br>SDL<br>ANATOMY |
| 5-Apr-24 | FRI | 8.00-9.00<br>LECTUREPERLs<br>PERLs-2-01 +PERLs-2-02<br>Dress Code + Punctuality (Importance of time)<br>Dr. Hassan<br>LECTURE HALL 2 | 9.00-10.00<br>LECTURE ANATOMY<br>GIT-A-012<br>Rectum and Anal Canal<br>Prof.Dr. Razia<br>LECTURE HALL 2 | 10.00-10.30<br>BREAK | 10.30-11.30<br>LECTURE HISTOLOGY<br>GIT-A-021<br>Large Intestine<br>Dr. Madiha<br>LECTURE HALL 2 | 11.30-12.30<br>LECTURE<br>PAK. STUDIES<br>. Describe brief the salient features of the Pakistan movement.<br>Amna Syed<br>LECTURE HALL 2 | 12.30-1.30<br>SDL<br>BIOCHEMISTRY | 1.30-2.30<br>JUMMA BREAK | 2.30-3.30<br>SDL<br>PHYSIOLOGY |
| Prepared by DME | | | Principal Prof.Dr.Gulfreen Waheed | | | | | Date:1st April,24 | |

# TIMETABLES

Week : 6

Theme: Liver & Biliary area

| TIME TABLE M-22 | | 2nd Year MBBS Week-7 Finalized | SESSION 2023-2024 | | | | | BLOCK :4 MODULE:6 THEME: Liver & Biliary tree | |
|---|---|---|---|---|---|---|---|---|---|
| DATE | DAY | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | 12.00-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 15-Apr-24 | MON | LECTURE ANATOMY GIT-A-010 Pancreas Dr.Kalsoom LECTURE HALL -2 | LECTURE BIOCHEMISTRY GIT-B-010 ,11 Carbohydrate metabolism/ Metabolism of galactose & fructose Prof Dr Sadia Amir LECTURE HALL -2 | LECTURE PHYSIOLOGY R-P-001 Body fluid compartment Dr. Afsheen LECTURE HALL -2 | TUTORIAL BATCH A: Dr. Shazia/Dr. Madiha BATCH B:EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH C:PHYSIOLOGY Dr. Beenish BATCH D: BIOCHEMISTRY Dr. Saba | B R E A K | LECTURE MEDICINE GIT-B-024 Acute & Chronic Hepatitis Dr Salman Nasrullah LECTURE HALL -2 | PRACTICAL BATCH A: ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH B: HISTOLOGY LAB Dr. Shaista BATCH C: PHYSIOLOGY LAB Dr. Navaira BATCH D: BIOCHEMISTRY LAB Dr. Saba | CSIM (IN 5 BATCHES) A:Gulfreen Nursing College Lecture Hall-1 Detail the steps of urinary catheterization in Male. B: Gulfreen Nursing College Lecture Hall-2 Detail the steps of urinary catheterization in Male. C:Gulfreen Nursing College Lecture Hall-3 Detail the steps of urinary catheterization in Male. D:Gulfreen Nursing College Lecture Hall-4 Detail the steps of urinary catheterization in Male. E:Gulfreen Nursing College Lecture Hall-5 Detail the steps of urinary catheterization in Male. |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 16-Apr-24 | TUE | LECTURE BIOCHEMISTRY GIT-B-010 ,11 Carbohydrate metabolism/ Metabolism of galactose & fructose Prof Dr Sadia Amir LECTURE HALL -2 | LECTURE PHYSIOLOGY R-P-001 Body fluid compartment Dr. Afsheen LECTURE HALL -2 | LECTURE ANATOMY GIT-A-011 Spleen Dr.Kalsoom LECTURE HALL -2 | PRACTICAL BATCH B:ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH C:HITOLOGY LAB Dr. Shaista BATCH D:PHYSIOLOGY LAB Dr. Navaira BATCH A: BIOCHEMISTRY LAB Dr. Misbah | | LECTURE HOLY QURAN importance of the protection of Human life Amna Syed LECTURE HALL -2 | TUTORIAL BATCH B: ANATOMY Dr. Shazia/Dr. Madiha BATCH C: EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH D: PHYSIOLOGY Dr. Beenish BATCH A: BIOCHEMISTRY Dr. Misbah | CSIM (IN 5 BATCHES) A:Gulfreen Nursing College Lecture Hall-1 Detail the steps of urinary catheterization in Male. B: Gulfreen Nursing College Lecture Hall-2 Detail the steps of urinary catheterization in Male. C:Gulfreen Nursing College Lecture Hall-3 Detail the steps of urinary catheterization in Male. D:Gulfreen Nursing College Lecture Hall-4 Detail the steps of urinary catheterization in Male. E:Gulfreen Nursing College Lecture Hall-5 Detail the steps of urinary catheterization in Male. |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-11.00 | 11.00-12.00 | | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 17-Apr-24 | WED | LECTURE PHYSIOLOGY R-P-001 Body fluid compartment Dr. Afsheen LECTURE HALL -2 | LECTURE EMBRYOLOGY GIT-A-016 Midgut Prof Dr. Razia LECTURE HALL -2 | LECTURE BIOCHEMISTRY GIT-B-010 ,11 Carbohydrate metabolism/ Metabolism of galactose & fructose Dr.Yusra LECTURE HALL -2 | LECTURE PERLs-2-03 Setting and tracking milestones in strategic planning Dr. Laraib Qamar LECTURE HALL -2 | | TUTORIAL BATCH C: ANATOMY Dr. Shazia/Dr. Madiha BATCH D: EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH A: PHYSIOLOGY Dr. Beenish BATCH B: BIOCHEMISTRY Dr. Asad | PRACTICAL BATCH C:ANATOMY LABDr. Madiha/Dr. Shazia BATCH D:HITOLOGY LAB Dr. Shaista BATCH A:PHYSIOLOGY LAB Dr. Navaira BATCH B: BIOCHEMISTRY LAB Dr. Asad | SDL INTEGRATED |
| | | 8.00-10.00 | | 10.00-11.00 | 11.00-12.00 | | 12.30-2.30 | | 2.30-3.30 |
| 18-Apr-24 | THU | GRAND TEST-2 Small intestine +Large intestine (Cecum, Appendix, Colon, Rectum & Anal Canal) +Liver & Biliary tree+Pancreas & Spleen EXAMINATION HALL-2 | | KEY DISCUSSION LECTURE HALL -2 | GIT-B-015 Nutrition/ Balanced diet Dr Yusra LECTURE HALL -2 | | OSPE+VIVA | | SDL ANATOMY |
| | | 8.00-9.00 | 9.00-10.00 | 10.00-10.30 | 10.30-11.30 | 11.30-12.30 | 12.30-1.30 | 1.30-2.30 | 2.30-3.30 |
| 19-Apr-24 | FRI | LECTURE HISTOLOGY GIT-A-020 Small Intestine Dr.Madiha LECTURE HALL -2 | PRACTICAL BATCH D: ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH A: HISTOLOGY Dr. Shaista BATCH B:PHYSIOLOGY LAB Dr. Rabiya BATCH C: BIOCHEMISTRY LAB Dr. Hamza | BREAK | TUTORIAL BATCH D:ANATOMY Dr. Shazia/Dr. Madiha BATCH A: EMBRYOLOGY Dr. Shazia/Dr. Madiha BATCH B: PHYSIOLOGY Dr. Beenish BATCH C: BIOCHEMISTRY Dr. Hamza | LECTURE BIOCHEMISTRY GIT-B-010 ,11 Carbohydrate metabolism/ Metabolism of galactose & fructose Dr.Yusra LECTURE HALL -2 | SDL BIOCHEMISTRY | JUMMA BREAK | SDL PHYSIOLOGY |
| Prepared by DME | | | Principal Prof.Dr.Gulfreen Waheed | | | | Date:15th April,24 | | |

# TIMETABLES

## Week : 7

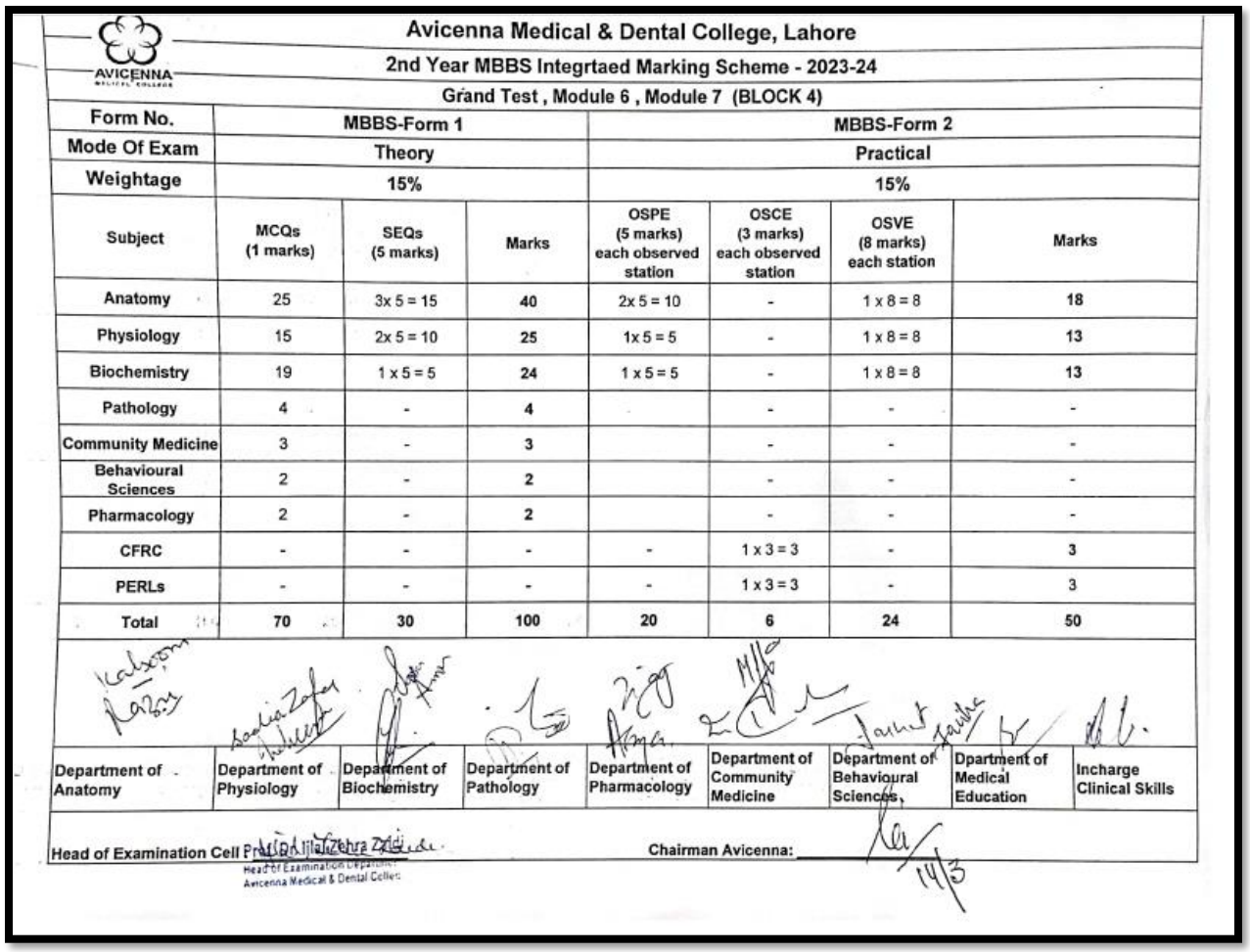
## Theme: Pancreas & Spleen, Nutrition

| TIME TABLE M-22 | | 2nd Year MBBS Week-8 Finalized | SESSION 2023-2024 | | | | | BLOCK# 4 MODULE:6 Theme: Pancreas & Spleen+Nutrition | |
|---|---|---|---|---|---|---|---|---|---|
| **DATE** | **DAY** | **8.00-9.00** | **9.00-10.00** | **10.00-11.00** | **11.00-12.00** | **12.00-12.30** | **12.30-1.30** | **1.30-2.30** | **2.30-3.30** |
| **22-Apr-24** | **MON** | LECTURE ANATOMY GIT-A-010 Pancreas Dr. Kalsoom LECTURE HALL 2 | LECTURE BIOCHEMISTRY GIT-B-12 Carbohydrate metabolism/ Ethanol ,metabolism Prof Dr Haroon Habib LECTURE HALL 2 | PRACTICAL BATCH A: ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH B: HISTOLOGY LAB Dr. Shaista BATCH C: PHYSIOLOGY LAB Dr. Navaira BATCH D: BIOCHEMISTRY LAB Dr. Saba | LECTURE COM.MEDICINE Preventive Medicine in Nutrition+Nutrition & Health Dr. Sana Noor LECTURE HALL 2 | B R E A K | LECTURE PATHOLOGY R-P-005 Micturation Ptahology Dr Nadia LECTURE HALL 2 | LECTURE PHYSIOLOGY R-P-002,R-P-003 Body fluid compartment,Functions Dr. Afsheen LECTURE HALL 2 | CSIM (IN 5 BATCHES) Topic:Examination of thyroid Gland A:Gulfreen Nursing College Lecture Hall-1 B: Gulfreen Nursing College Lecture Hall-2 C:Gulfreen Nursing College Lecture Hall-3 D:Gulfreen Nursing College Lecture Hall-4 E:Gulfreen Nursing College Lecture Hall-5 |
| | | **8.00-9.00** | **9.00-10.00** | **10.00-11.00** | **11.00-12.00** | | **12.30-1.30** | **1.30-2.30** | **2.30-3.30** |
| **23-Apr-24** | **TUE** | LECTURE BIOCHEMISTRY GIT-B-1019 Nutrition/ BMR Dr Yusra LECTURE HALL 2 | LECTURE PHYSIOLOGY R-P-004 Micturition Reflex Prof. Dr. Sadia LECTURE HALL 2 | LECTURE ANATOMY GIT-A-011 Spleen Dr. Kalsoom LECTURE HALL 2 | PRACTICAL BATCH B:ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH C:HITOLOGY LAB Dr. Shaista BATCH D:PHYSIOLOGY LAB Dr. Navaira BATCH A: BIOCHEMISTRY LAB Dr. Misbah | | LECTURE Medicine (Nephrology) R-P-002 R-P-014 Edema, Diabetes insipidus Dr Haris LECTURE HALL 2 | TUTORIAL BATCH A: ANATOMY Dr. Shazia/Dr. Madiha BATCH B: PHYSIOLOGY Dr. Beenish BIOCH C:BIOCHEMISTRY D Dr. Misbah | CSIM (IN 5 BATCHES) Topic:Examination of thyroid Gland A:Gulfreen Nursing College Lecture Hall-1 B: Gulfreen Nursing College Lecture Hall-2 C:Gulfreen Nursing College Lecture Hall-3 D:Gulfreen Nursing College Lecture Hall-4 E:Gulfreen Nursing College Lecture Hall-5 |
| | | **8.00-9.00** | **9.00-10.00** | **10.00-11.00** | **11.00-12.00** | | **12.30-1.30** | **1.30-2.30** | **2.30-3.30** |
| **24-Apr-24** | **WED** | LECTURE BIOCHEMISTRY GIT-B-020 Nutrition/ Caloric requirements Dr Yusra LECTURE HALL 2 | LECTURE EMBRYOLOGY GIT-A-016-017 Midgut and Hindgut Prof Dr. Razia LECTURE HALL 2 | LECTURE PHYSIOLOGY R-P-004 Micturition Reflex Prof. Dr. Sadia LECTURE HALL 2 | LECTURE BEH.SCIENCES R-BhS-001 Dementia,uremicencephalopathy,delusion,muscle paralysis&Societal impact Dr.Farhat LECTURE HALL 2 | | TUTORIAL BATCH B: ANATOMY Dr. Shazia/Dr. Madiha BATCH C: PHYSIOLOGY Dr. Beenish BATCH A: BIOCHEMISTRY Dr. Asad | PRACTICAL BATCH C:ANATOMY LABDr. Madiha/Dr. Shazia BATCH D:HITOLOGY LAB Dr. Shaista BATCH A:PHYSIOLOGY LAB Dr. Navaira BATCH B: BIOCHEMISTRY LAB Dr. Asad | SDL INTEGRATED |
| | | **8.00-10.00** | | **10.00-11.00** | **11.00-12.00** | | **12.30-2.30** | | **2.30-3.30** |
| **25-Apr-24** | **THU** | MODULE-6 EXAM (Integrated) Whole syllabus of module GIT &Nutrition EXAMINATION HALL-3 | | KEY DISCUSSION LECTURE HALL 1 | LECTURE EMBRYOLOGY R-A-008 Development of urinary system Prof Dr. Razia LECTURE HALL 2 | | OSPE+VIVA | | SDL ANATOMY |
| | | **8.00-9.00** | **9.00-10.00** | **10.00-10.30** | **10.30-11.30** | **11.30-12.30** | **12.30-1.30** | **1.30-2.30** | **2.30-3.30** |
| **26-Apr-24** | **FRI** | LECTURE HISTOLOGY GIT-A-020 Large intestine Dr. Madiha LECTURE HALL 2 | PRACTICAL BATCH D: ANATOMY LAB Dr. Madiha/Dr. Shazia BATCH A: HISTOLOGY Dr. Shaista BATCH B:PHYSIOLOGY LAB Dr. Rabiya BATCH C: BIOCHEMISTRY LAB Dr. Hamza | BREAK | TUTORIAL BATCH C:ANATOMY Dr. Shazia/Dr. Madiha BATCH A: PHYSIOLOGY Dr. Beenish BATCH B: BIOCHEMISTRY Dr. Hamza | LECTURE BIOCHEMISTRY GIT-B-020 Nutrition/ Caloric requirements Dr Yusra LECTURE HALL 2 | SDL BIOCHEMISTRY | JUMMA BREAK | SDL PHYSIOLOGY |
| **Prepared by DME** | | | **Principal Prof.Dr.Gulfreen Waheed** | | **Date:19th April ,2024** | | | | |

# 6. ASSESSMENTS

## 6.1 Assessment policy

### Marking scheme for Block-4



**Avicenna Medical & Dental College, Lahore**

**2nd Year MBBS Integrtaed Marking Scheme - 2023-24**

**Grand Test , Module 6 , Module 7 (BLOCK 4)**

| Form No. | MBBS-Form 1 | | | MBBS-Form 2 | | | |
|---|---|---|---|---|---|---|---|
| Mode Of Exam | Theory | | | Practical | | | |
| Weightage | 15% | | | 15% | | | |
| Subject | MCQs (1 marks) | SEQs (5 marks) | Marks | OSPE (5 marks) each observed station | OSCE (3 marks) each observed station | OSVE (8 marks) each station | Marks |
| Anatomy | 25 | 3x 5 = 15 | 40 | 2x 5 = 10 | - | 1 x 8 = 8 | 18 |
| Physiology | 15 | 2x 5 = 10 | 25 | 1x 5 = 5 | - | 1 x 8 = 8 | 13 |
| Biochemistry | 19 | 1 x 5 = 5 | 24 | 1 x 5 = 5 | - | 1 x 8 = 8 | 13 |
| Pathology | 4 | - | 4 | | - | - | - |
| Community Medicine | 3 | - | 3 | | - | - | - |
| Behavioural Sciences | 2 | - | 2 | | - | - | - |
| Pharmacology | 2 | - | 2 | | - | - | - |
| CFRC | - | - | - | - | 1 x 3 = 3 | - | 3 |
| PERLs | - | - | - | - | 1 x 3 = 3 | - | 3 |
| Total | 70 | 30 | 100 | 20 | 6 | 24 | 50 |

| Department of Anatomy | Department of Physiology | Department of Biochemistry | Department of Pathology | Department of Pharmacology | Department of Community Medicine | Department of Behavioural Sciences | Dpartment of Medical Education | Incharge Clinical Skills |
|---|---|---|---|---|---|---|---|---|

Head of Examination Cell Professor Nafeesa Zahra Zaidi — Head of Examination Department, Avicenna Medical & Dental College

Chairman Avicenna: 14/3

## Assessment schedule

Grand test-1 : 21st March, 2024

Grand test-2 : 18th April, 2024

Module-1 : 25th April, 2024

# 6.2 Assessment tools

**Assessment tools for Theory**

• Multiple Choice Questions (MCQ)

• Structured Essay Questions (SEQ)

• PERLs Portfolio Reflective Assignments

**Assessment tools for Practical, Clinical and Human (soft) skills**

• Objective Structured Practical Examination

• Structured Viva

• Logbook & clinical skills OSCE

• Portfolio

• Feedback (simple and/or 360 degree)

**MODULAR & GENERAL EXAMINATION RULES AND REGULATIONS:**

- Student must report to examination hall/venue, 30 minutes before the exam.
- Exam will begin sharp at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- Cell phones are strictly not allowed in examination hall.
- If any student is found with cell phone in any mode (silent, switched off or on) he/she will be not be allowed to continue their exam.
- No students will be allowed to sit in exam without College Identity Card, College ID Card and Lab Coat

- Student must bring the following stationary items for the exam: Pen, Pencil, Eraser, and Sharpener.
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.