

## Group D &amp; E

Week 1 (25/06/2018)

Theme: Anaemia

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	<b>Lecture:</b> Introduction to Haematology – Blood & Serum/Plasma <b>(P)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Haemoglobin: Structure, types & functions <b>(P)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Erythropoiesis <b>(P)</b> <b>Venue:</b> Tutorial room II <b>Instructor:</b>	<b>Lecture:</b> Red blood cells - role and structure <b>(P)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Polycythaemia Vera <b>(P)</b> <b>Venue:</b> Lecture hall 2
09.35 – 10.35	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Synthesis of haem <b>(B)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Metabolism of Haem <b>(B)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Role of Cobalamin & Jaundice <b>(B)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Classification & diagnosis of anaemia <b>(Pa)</b> <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani
10.45 – 12.45	<b>Group D:</b> CSL – Block C <b>Group E:</b> Directed self-study	<b>Group D:</b> Directed self-study <b>Group E:</b> CSL – Block C	<b>Group D1:</b> Blood bank – visit <b>Group E:</b> Directed self-study	<b>Group D:</b> Physiology lab <b>Group E1:</b> Blood bank – visit	<b>Group D:</b> Directed self-study <b>Group E:</b> Physiology lab
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group D:</b> Directed self-study <b>Group E:</b> Directed self-study	<b>Group D:</b> Directed self-study <b>Group E:</b> Directed self-study	<b>Group D:</b> Directed self-study <b>Group E:</b> Directed self-study	<b>Group D3:</b> Blood bank - Teaching <b>Group E:</b> Physiology SGD – Physiology lab	<b>Group D:</b> Physiology SGD – Physiology lab <b>Group E3:</b> Blood bank - Teaching

**CSL:** Signs and symptoms of patient with anaemia & jaundice**Physiology lab:** Red cell morphology & Red cell indices**Blood Bank – Visit:** Orientation to the blood bank**Blood Bank – Teaching:** To be decided.

## Group A, B &amp; C

Week 1 (25/06/2018)

Theme: Anaemia

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08:30 – 09:30	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Synthesis of haem (B) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Metabolism of Haem (B) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Role of Cobalamin & Jaundice (B) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Classification & diagnosis of anaemia (Pa) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani
09:35 – 10:35	<b>Lecture:</b> Introduction to Haematology – Blood & Serum/Plasma (P) <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Haemoglobin: Structure, types & functions (P) <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Erythropoiesis (P) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Red blood cells - role and structure (P) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Polycythaemia Vera (P) <b>Venue:</b> Lecture hall 1
10:45 – 12:45	<b>Group A:</b> Physiology lab <b>Group B1:</b> Blood bank – visit <b>Group C:</b> Directed self-study	<b>Group A:</b> Directed self-study <b>Group B:</b> Physiology lab <b>Group C1:</b> Blood bank – visit	<b>Group A:</b> CSL – Block C <b>Group B:</b> Directed self-study <b>Group C:</b> Physiology lab	<b>Group A:</b> Directed self-study <b>Group B:</b> CSL – Block C <b>Group C:</b> Directed self-study	<b>Group A1:</b> Blood bank – visit <b>Group B:</b> Directed self-study <b>Group C:</b> CSL – Block C
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group A3:</b> Blood bank - Teaching <b>Group B:</b> Directed self-study <b>Group C:</b> Directed self-study	<b>Group A:</b> Directed self-study <b>Group B3:</b> Blood bank - Teaching <b>Group C:</b> Directed self-study	<b>Group A:</b> Directed self-study <b>Group B:</b> Physiology SGD – Tutorial room I <b>Group C3:</b> Blood bank - Teaching	<b>Group A:</b> Directed self-study <b>Group B:</b> Directed self-study <b>Group C:</b> Physiology SGD – Tutorial room I	<b>Group A:</b> Physiology SGD – tutorial room I <b>Group B:</b> Directed self-study <b>Group C:</b> Directed self-study

**CSL:** Signs and symptoms of patient with anaemia & jaundice**Physiology lab:** Red cell morphology & Red cell indices**Blood Bank – Visit:** Orientation to the blood bank**Blood Bank – Teaching:** To be decided.

## Group D &amp; E

## Theme: Infection control mechanism of the body

Week 2 (02/07/2018)

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	<b>Lecture:</b> Microcytic anaemia ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Macrocytic anaemia ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Anaemias – Haemolytic & Aplastic ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Anaemias – Haemolytic & Aplastic ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Pharmacological treatment of anaemia ( <b>Ph</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>
09.35 – 10.35	<b>Lecture:</b> Anatomy of Lymph node, Thymus, Spleen & tonsils ( <b>A</b> ) <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> White blood cells – type, structure, functions & origin ( <b>P</b> ) <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> Blood grouping & Cross matching ( <b>P</b> ) <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> Blood transfusion & its complication ( <b>P</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>
10.45 – 12.45	<b>Group D:</b> CSL – Block C <b>Group E:</b> Anatomy lab	<b>Group D2:</b> Blood bank – visit <b>Group E:</b> CSL – Block C	<b>Group D:</b> Pathology lab <b>Group E2:</b> Blood bank – visit	<b>Group D:</b> Physiology lab <b>Group E:</b> Pathology lab	<b>Group D:</b> Anatomy lab <b>Group E:</b> Physiology lab
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group D:</b> Pathology SGD – Physiology lab <b>Group E:</b> Directed self-study	<b>Group D1:</b> Blood bank - Teaching <b>Group E:</b> Pathology SGD – Physiology lab	<b>Group D:</b> Physiology SGD – Physiology lab <b>Group E1:</b> Blood bank - Teaching	<b>Group D:</b> Biochemistry SGD – Physiology lab <b>Group E:</b> Physiology SGD – Lecture hall 4	<b>Group D:</b> Directed self-study <b>Group E:</b> Biochemistry SGD – Physiology lab

**CSL:** General Physical Examination – Jaundice, Anaemia, Cyanosis, Clubbing, Oedema, Temperature

**Physiology lab:** Osmotic fragility of Red blood cells & Haemoglobin estimation

**Pathology lab:** Interpretation of Complete Blood Count report

**Blood Bank – Visit:** Observation of the patients with blood diseases

**Blood Bank – Teaching:** Related to patients observed earlier.

**Anatomy Lab:** Macroscopic & microscopic structure of the Lymph node & Thymus

## Group A, B &amp; C

## Theme: Infection control mechanism of the body

## Week 2 (02/07/2018)

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	<b>Lecture:</b> Anatomy of Lymph node, Thymus, Spleen & tonsils <b>(A)</b> <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> White blood cells – type, structure, functions & origin <b>(P)</b> <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Blood grouping & Cross matching <b>(P)</b> <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Blood transfusion & its complication <b>(P)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>
09.35 – 10.35	<b>Lecture:</b> Microcytic anaemia <b>(Pa)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Macrocytic anaemia <b>(Pa)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Anaemias – Haemolytic & Aplastic <b>(Pa)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Anaemias – Haemolytic & Aplastic <b>(Pa)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Pharmacological treatment of anaemia <b>(Ph)</b> <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>
10.45 – 12.45	<b>Group A:</b> Physiology lab <b>Group B:</b> Pathology lab <b>Group C2:</b> Blood bank – visit	<b>Group A:</b> Anatomy lab <b>Group B:</b> Physiology lab <b>Group C:</b> Pathology lab	<b>Group A:</b> CSL – Block C <b>Group B:</b> Anatomy lab <b>Group C:</b> Physiology lab	<b>Group A2:</b> Blood bank – visit <b>Group B:</b> CSL – Block C <b>Group C:</b> Anatomy lab	<b>Group A:</b> Pathology lab <b>Group B2:</b> Blood bank – visit <b>Group C:</b> CSL – Block C
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group A:</b> Biochemistry SGD - Tutorial room I <b>Group B:</b> Physiology SGD – Tutorial room IV <b>Group C1:</b> Blood bank - Teaching	<b>Group A:</b> Directed self-study <b>Group B:</b> Biochemistry SGD - Tutorial room I <b>Group C:</b> Physiology SGD – Tutorial room IV	<b>Group A:</b> Pathology SGD - Tutorial room I <b>Group B:</b> Directed self-study <b>Group C:</b> Biochemistry SGD – Tutorial room IV	<b>Group A1:</b> Blood bank - Teaching <b>Group B:</b> Pathology SGD – tutorial room I <b>Group C:</b> Directed self-study	<b>Group A:</b> Physiology SGD - Tutorial room I <b>Group B1:</b> Blood bank - Teaching <b>Group C:</b> Pathology SGD – Tutorial room IV

**CSL:** General Physical Examination – Jaundice, Anaemia, Cyanosis, Clubbing, Oedema, Temperature

**Physiology lab:** Osmotic fragility of Red blood cells & Haemoglobin estimation

**Pathology lab:** Interpretation of Complete Blood Count report

**Blood Bank – Visit:** Observation of the patients with blood diseases

**Blood Bank – Teaching:** Related to patients observed earlier.

**Anatomy Lab:** Macroscopic & microscopic structure of the Lymph node & Thymus

## Group D &amp; E

Week 3 (09/07/2018)

Theme: Bleeding &amp; Coagulation disorders

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	<b>Lecture:</b> Platelets – structure, function & formation ( <b>P</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Haemostasis - Mechanism ( <b>P</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Haemostasis - Pathways ( <b>P</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Anti-clotting mechanisms ( <b>P</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>	<b>Lecture:</b> Role & mechanism of action of anticoagulants. ( <b>Ph</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b>
09.35 – 10.35	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> To be confirmed <b>Venue:</b> Lecture hall 2	<b>Lecture:</b> Lab investigations of bleeding disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Bleeding disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Coagulation disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 2 <b>Instructor:</b> Dr. GS Nizamani
10.45 – 12.45	<b>Group D:</b> CSL – Block C <b>Group E:</b> Anatomy lab	<b>Group D3:</b> Blood bank - visit <b>Group E:</b> CSL – Block C	<b>Group D:</b> Pathology lab <b>Group E3:</b> Blood bank - Visit	<b>Group D:</b> Physiology lab <b>Group E:</b> Pathology lab	<b>Group D:</b> Anatomy lab <b>Group E:</b> Physiology lab
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group D:</b> Pathology SGD – Physiology lab <b>Group E:</b> Pharmacology SGD – Lecture hall 4	<b>Group D2:</b> Blood bank - Teaching <b>Group E:</b> Pathology SGD – Physiology lab	<b>Group D:</b> Physiology SGD – Physiology lab <b>Group E2:</b> Blood bank - Teaching	<b>Group D:</b> Biochemistry SGD – Physiology lab <b>Group E:</b> Physiology SGD – Lecture hall 4	<b>Group D:</b> Pharmacology SGD – Physiology lab <b>Group E:</b> Biochemistry SGD – Lecture hall 4

**CSL:** Physical examination of superficial lymph nodes: Head & Neck, Axillary, Inguinal**Anatomy SGD** - Anatomy of the organs**Physiology Lab:** Blood grouping & Cross matching; Bleeding time & Clotting time**Blood Bank – Visit:** Observation of the patients with blood diseases**Blood Bank – Teaching:** Related to patients observed earlier.**Anatomy Lab:** Macroscopic & microscopic structure of the Spleen & Tonsils

## Group A, B &amp; C

Week 3 (09/07/2018)

Theme: Bleeding &amp; Coagulation disorders

Day/Time	Monday	Tuesday	Wednesday	Thursday	Friday
08.30 – 09.30	<b>Lecture:</b> Islamiyat/ Pakistan Studies <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> To be confirmed <b>Venue:</b> Lecture hall 1	<b>Lecture:</b> Lab investigations of bleeding disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Bleeding disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani	<b>Lecture:</b> Coagulation disorders ( <b>Pa</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b> Dr. GS Nizamani
09.35 – 10.35	<b>Lecture:</b> Platelets – structure, function & formation ( <b>P</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Haemostasis - Mechanism ( <b>P</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Haemostasis - Pathways ( <b>P</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Anti-clotting mechanisms ( <b>P</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>	<b>Lecture:</b> Role & mechanism of action of anticoagulants. ( <b>Ph</b> ) <b>Venue:</b> Lecture hall 1 <b>Instructor:</b>
10.45 – 12.45	<b>Group A:</b> Physiology lab <b>Group B:</b> Pathology lab <b>Group C3:</b> Blood bank - visit	<b>Group A:</b> Anatomy lab <b>Group B:</b> Physiology lab <b>Group C:</b> Pathology lab	<b>Group A:</b> CSL – Block C <b>Group B:</b> Anatomy lab <b>Group C:</b> Physiology lab	<b>Group A3:</b> Blood bank - visit <b>Group B:</b> CSL – Block C <b>Group C:</b> Anatomy lab	<b>Group A:</b> Pathology lab <b>Group B3:</b> Blood bank - visit <b>Group C:</b> CSL – Block C
12:46 - 01:10	<b>Lunch/ Prayer Break</b>				
01.15 – 03.15	<b>Group A:</b> Biochemistry SGD – Tutorial room I <b>Group B:</b> Physiology SGD – Tutorial room IV <b>Group C2:</b> Blood bank – Teaching	<b>Group A:</b> Pharmacology SGD – Tutorial room I <b>Group B:</b> Biochemistry SGD – Tutorial room IV <b>Group C:</b> Physiology SGD – Lecture hall 3	<b>Group A:</b> Pathology SGD – tutorial room I <b>Group B:</b> Pharmacology SGD – Tutorial room IV <b>Group C:</b> Biochemistry SGD – Lecture hall 3	<b>Group A2:</b> Blood bank – Teaching <b>Group B:</b> Pathology SGD – Tutorial room IV <b>Group C:</b> Pharmacology SGD – Lecture hall 3	<b>Group A:</b> Physiology SGD – tutorial room I <b>Group B2:</b> Blood bank – Teaching <b>Group C:</b> Pathology SGD – Lecture hall 3

**CSL:** Physical examination of superficial lymph nodes: Head & Neck, Axillary, Inguinal**Anatomy SGD** - Anatomy of the organs**Physiology Lab:** Blood grouping & Cross matching; Bleeding time & Clotting time**Blood Bank – Visit:** Observation of the patients with blood diseases**Blood Bank – Teaching:** Related to patients observed earlier.**Anatomy Lab:** Macroscopic & microscopic structure of the Spleen & Tonsils

Week 4: (16<sup>th</sup> July 2018) End-module Exam

Group A, B, C, D & E

Day/ Time		Monday	Tuesday	Wednesday	Thursday	Friday
Morning	08.00 – 10.00 AM	Students study leave			<u>Written Exam</u> Theory Physiology: 40 MCQs Biochemistry: 15 MCQs Pathology: 30 MCQs Anatomy: 5 MCQs Pharmacology: 10 MCQs  Total: 100 MCQs  Duration: 02 hours	<u>Practical Exam</u> Integrated Practical Examination  08.30 – 04.00 PM • Practical exam • 100 marks
	10.01 – 12.00 PM				Viva examination	
Afternoon	12.01 – 03.00 PM					