

Group A, B & C

Week 1 (23rd July 2018)

Theme: Thoracic Cage - Revisited

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|---|--|--|----------|---|
| 08.30 – 09.30 | Lecture: Thoracic cage: Ribs, Sternum & Joints of Thoracic cage (A) Venue: Lecture hall 1 | Lecture: Mediastinum & its content (A) Venue: Lecture hall 1 | General Elections 25 & 26th of July 2018 | | Lecture: Pericardium: Fibrous & serous (A) Venue: Lecture hall 1 |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Properties of the heart (P) Venue: Lecture hall 1 | | | Lecture: Electrical activity of the heart (P) Venue: Lecture hall 1 |
| 10.35 – 12.30 | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Self-study | | | Group A: Self-study Group B: Self-study Group C: Self-study |
| 01.00 – 03.00 | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Self-study | | | Group A: Self-study Group B: Self-study Group C: Self-study |

Group D & E

Week 1 (23rd July 2018)

Theme: Thoracic Cage - Revisited

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|---|--|--|----------|---|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Properties of the heart (P) Venue: Lecture hall 2 | General Elections 25 & 26th of July 2018 | | Lecture: Electrical activity of the heart (P) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Thoracic cage: Ribs, Sternum & Joints of Thoracic cage (A) Venue: Lecture hall 2 | Lecture: Mediastinum & its content (A) Venue: Lecture hall 2 | | | Lecture: Pericardium: Fibrous & serous (A) Venue: Lecture hall 2 |
| 10.35 – 12.30 | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Self-study | | | Group A: Self-study Group B: Self-study Group C: Self-study |
| 01.00 – 03.00 | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Self-study | | | Group A: Self-study Group B: Self-study Group C: Self-study |

Group A, B & C

Week 2 (30th July 2018)

Theme: Heart – Position, structure and function

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|--|---|---|
| 08.30 – 09.30 | Lecture: Heart surfaces & borders (A) Venue: Lecture hall 1 Instructor: | Lecture: Heart chambers – Right atrium & ventricles (A) Venue: Lecture hall 1 | Lecture: Left atrium and ventricles (A) Venue: Lecture hall 1 Instructor: | Lecture: Valves & Fibrous skeleton of the heart (A) Venue: Lecture hall 1 Instructor: | Lecture: Blood supply of the heart (A) Venue: Lecture hall 1 Instructor: |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Conducting system of the heart (P) Venue: Lecture hall 1 | Lecture: Electrocardiography (P) Venue: Lecture hall 1 | Lecture: Electrocardiography continued... (P) Venue: Lecture hall 1 | Lecture: Cardiac cycle (P) Venue: Lecture hall 1 Instructor: |
| 10.35 – 12.30 | Group A: Anatomy Lab Group B: CSL – Block C Group C: Self-study | Group A: Self-study Group B: Anatomy Lab Group C: CSL - Block C | Group A: Self-study Group B: Self-study Group C: Anatomy Lab | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: CSL - Block C Group B: Self-study Group C: Self-study |
| 01.00 – 03.00 | Group A: Anatomy SGD – Tutorial room I Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Anatomy SGD – Tutorial room I Group C: Self-study | Group A: Physiology SGD – Tutorial room IV Group B: Self-study Group C: Anatomy SGD – Tutorial room I | Group A: Self-study Group B: Physiology SGD – tutorial room IV Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Physiology SGD – Tutorial room IV |

CSL: Overview of physical examination of the heart & Signs & symptoms – heart & vascular diseases;

Anatomy Lab: Bony thoracic Cage

Physiology SGD:

Anatomy SGD:

Group D & E

Week 2 (30th July 2018)

Theme: Heart – Position, structure and function

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|---|--|--|--|---|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Conducting system of the heart (P) Venue: Lecture hall 2 Instructor: | Lecture: Electrocardiography (P) Venue: Lecture hall 2 | Lecture: Electrocardiography continued...(P) Venue: Lecture hall 2 | Lecture: Cardiac cycle (P) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Heart surfaces & borders (A) Venue: Lecture hall 2 | Lecture: Heart chambers – Right atrium & ventricles (A) Venue: Lecture hall 2 | Lecture: Left atrium and ventricles (A) Venue: Lecture hall 2 | Lecture: Valves & Fibrous skeleton of the heart (A) Venue: Lecture hall 2 | Lecture: Blood supply of the heart (A) Venue: Lecture hall 2 Instructor: |
| 10.35 – 12.30 | Group D: self-study Group E: self-study | Group D: self-study Group E: self-study | Group D: CSL – Block C Group E: self-study | Group D: Anatomy Lab Group E: CSL – Block C | Group D: self-study Group E: Anatomy Lab |
| 01.00 – 03.00 | Group D: Physiology SGD – Physiology lab Group E: self-study | Group D: self-study Group E: Physiology SGD – Physiology lab | Group D: self-study Group E: self-study | Group D: Anatomy SGD – Physiology lab Group E: self-study | Group D: Group E: Anatomy SGD – Physiology lab |

CSL: Overview of physical examination of the heart & Signs & symptoms – heart & vascular diseases;

Anatomy Lab: Bony thoracic Cage

Physiology SGD:

Anatomy SGD:

Group A, B & C

Week 3 (6th August 2018)

Theme: Heart sounds & Murmurs

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|--|--|---|---|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Pulmonary trunk and aorta (A) Venue: Lecture hall 1 Instructor: | Lecture: Surface marking of the heart & its innervation (A) Venue: Lecture hall 1 | Lecture: Formation of heart tube & cardiac loop Venue: Lecture hall 1 | Lecture: Development of sinus venosus Venue: Lecture hall 1 |
| 09.35 – 10.30 | Lecture: Cardiac cycle continued... (P) Venue: Lecture hall 1 | Lecture: Heart sounds & Murmurs (P) Venue: Lecture hall 1 | Lecture: Pathophysiology of cardiac arrhythmia (P) Venue: Lecture hall 1 | Lecture: Pathophysiology of the heart blocks (P) Venue: Lecture hall 1 | Lecture: Drugs used in Cardiac arrhythmia (Ph) Venue: Lecture hall 1 |
| 10.35 – 12.30 | Group A: Anatomy Lab Group B: Physiology lab Group C: Self-study | Group A: Self-study Group B: Anatomy Lab Group C: Physiology lab | Group A: Self-study Group B: Self-study Group C: Anatomy Lab | Group A: Self-study Group B: Self-study Group C: Self-study | Group A: Physiology lab Group B: Self-study Group C: Self-study |
| 01.00 – 03.00 | Group A: Anatomy SGD – Tutorial room I Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Anatomy SGD – Tutorial room I Group C: Self-study | Group A: Physiology SGD – Tutorial room IV Group B: Self-study Group C: Anatomy SGD – Tutorial room I | Group A: Self-study Group B: Physiology SGD – tutorial room IV Group C: Self-study | Group A: Self-study Group B: Self-study Group C: Physiology SGD – Tutorial room IV |

Physiology lab: Performing Electrocardiography & its interpretation I**Anatomy Lab:** Heart surface and its borders – Gross Anatomy**Physiology SGD:****Anatomy SGD:**

Group D & E

Week 3 (6th August 2018)

Theme: Heart sounds & Murmurs

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|--|---|---|--|
| 08.30 – 09.30 | Lecture: Cardiac cycle continued... (P) Venue: Lecture hall 2 Instructor: | Lecture: Heart sounds & Murmurs (P) Venue: Lecture hall 2 | Lecture: Pathophysiology of cardiac arrhythmia (P) Venue: Lecture hall 2 | Lecture: Pathophysiology of the heart blocks (P) Venue: Lecture hall 2 | Lecture: Drugs used in Cardiac arrhythmia (Ph) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Pulmonary trunk and aorta (A) Venue: Lecture hall 2 | Lecture: Surface marking of the heart & its innervation (A) Venue: Lecture hall 2 | Lecture: Formation of heart tube & cardiac loop (A) Venue: Lecture hall 2 | Lecture: Development of sinus venosus (A) Venue: Lecture hall 2 |
| 10.35 – 12.30 | Group D: self-study Group E: self-study | Group D: self-study Group E: self-study | Group D: Physiology lab Group E: self-study | Group D: Anatomy Lab Group E: Physiology lab | Group D: self-study Group E: Anatomy Lab |
| 01.00 – 03.00 | Group D: Physiology SGD – Physiology lab Group E: self-study | Group D: self-study Group E: Physiology SGD – Physiology lab | Group D: self-study Group E: self-study | Group D: Anatomy SGD – Physiology lab Group E: self-study | Group D: self-study Group E: Anatomy SGD – Physiology lab |

Physiology lab: Performing Electrocardiography & its interpretation I**Anatomy Lab:** Heart surface and its borders – Gross Anatomy**Physiology SGD:****Anatomy SGD:**

Group A, B & C

Week 4 (13th August 2018)

Theme: Heart – Haemodynamic

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|--|--|---|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Public Holiday 14 th August 2018 | Lecture: Formation of cardiac septa Venue: Lecture hall 1 | Lecture: Development of interventricular septum Venue: Lecture hall 1 | Lecture: Development of aortopulmonary septum Venue: Lecture hall 1 |
| 09.35 – 10.30 | Lecture: Cardiac output (P) Venue: Lecture hall 1 | | Lecture: Cardiac output continued... (P) Venue: Lecture hall 1 | Lecture: Cardiac enzymes (B) Venue: Lecture hall 1 | Lecture: Hyperaemia & congestion (Pa) Venue: Lecture hall 1 |
| 10.35 – 12.30 | Group A: Anatomy Lab Group B: Physiology lab Group C: Self-study | | Group A: Self-study Group B: Anatomy Lab Group C: Physiology lab | Group A: Self-study Group B: Self-study Group C: Anatomy Lab | Group A: Physiology lab Group B: Self-study Group C: Self-study |
| 01.00 – 03.00 | Group A: Anatomy SGD – Tutorial room I Group B: Physiology SGD – Tutorial room IV Group C: Self-study | | Group A: Self-study Group B: Anatomy SGD – Tutorial room I Group C: Physiology SGD – Tutorial room IV | Group A: Pharmacology SGD – Tutorial room IV Group B: Self-study Group C: Anatomy SGD – Tutorial room I | Group A: Physiology SGD – Tutorial room I Group B: Pharmacology SGD – Tutorial room IV Group C: Pharmacology SGD – Tutorial room IV |

Physiology lab: Performing Electrocardiography & its interpretation II**Anatomy Lab:** Internal structure of the heart chambers**Physiology SGD:****Pharmacology SGD:** Anti-arrhythmic drugs

Group D & E

Week 4 (13th August 2018)

Theme: Heart – Haemodynamic

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|--|---|---|
| 08.30 – 09.30 | Lecture: Cardiac output (P) Venue: Lecture hall 2 Instructor: | Public Holiday 14th August 2018 | Lecture: Cardiac output continued... (P) Venue: Lecture hall 2 | Lecture: Cardiac enzymes (B) Venue: Lecture hall 2 | Lecture: Hyperaemia & congestion (Pa) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | | Lecture: Formation of cardiac septa (A) Venue: Lecture hall 2 | Lecture: Development of interventricular septum (A) Venue: Lecture hall 2 | Lecture: Development of aortopulmonary septum (A) Venue: Lecture hall 2 |
| 10.35 – 12.30 | Group D: Physiology lab – block C Group E: self-study | | Group D: self-study Group E: self-study | Group D: Anatomy Lab – Biochemistry lab Group E: Physiology lab | Group D: self-study Group E: Anatomy Lab |
| 01.00 – 03.00 | Group D: Pharmacology SGD – Physiology lab Group E: self-study | | Group D: Physiology SGD – Physiology lab Group E: Pharmacology SGD – Pathology museum | Group D: Anatomy SGD – Pathology museum Group E: Physiology SGD – Physiology lab | Group D: self-study Group E: Anatomy SGD – Physiology lab |

Physiology lab: Performing Electrocardiography & its interpretation II

Anatomy Lab: Internal structure of the heart chambers

Physiology SGD:

Pharmacology SGD: Anti-arrhythmic drugs

Group A, B & C

Week 5 (27th August 2018)

Theme: Pathological basis of vascular & heart diseases

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|---|--|--|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Development of vascular system Venue: Lecture hall 1 | Lecture: Circulation before & after birth (A) Venue: Lecture hall 1 | Lecture: Histology of the heart & blood vessels (A) Venue: Lecture hall 1 | Lecture: Haemodynamic (P) Venue: Lecture hall 1 |
| 09.35 – 10.30 | Lecture: Edema (Pa) Venue: Lecture hall 1 | Lecture: Thrombus formation (Pa) Venue: Lecture hall 1 | Lecture: Thrombus formation continued... (Pa) Venue: Lecture hall 1 | Lecture: Embolism (Pa) Venue: Lecture hall 1 | Lecture: Infarction (Pa) Venue: Lecture hall 1 |
| 10.35 – 12.30 | Group A: Anatomy Lab Group B: CSL – Block C Group C: Self-study | Group A: Self-study Group B: Anatomy Lab Group C: CSL - Block C | Group A: Pathology lab Group B: Self-study Group C: Anatomy Lab | Group A: Self-study Group B: Pathology lab Group C: Self-study | Group A: CSL - Block C Group B: Self-study Group C: Pathology lab |
| 01.00 – 03.00 | Group A: Self-study Group B: Biochemistry SGD – tutorial room IV Group C: Anatomy SGD | Group A: Self-study Group B: Self-study Group C: Biochemistry SGD – tutorial room IV | Group A: Physiology SGD – tutorial room IV Group B: Self-study Group C: Self-study | Group A: Self-study Group B: Physiology SGD – tutorial room IV Group C: Anatomy SGD | Group A: Biochemistry SGD – tutorial room I Group B: Anatomy SGD Group C: Physiology SGD – tutorial room IV |

CSL: Physical examination of the heart I

Anatomy Lab: Blood supply of the heart & surface markings

Physiology SGD:

Pathology SGD:

Biochemistry SGD: Cardiac enzymes

Pathology lab: Specimen/pictures of hyperaemia & thrombus & emboli

Group D & E

Week 5 (27th August 2018)

Theme: Pathological basis of vascular & heart diseases

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|--|--|---|--|
| 08.30 – 09.30 | Lecture: Edema (Pa) Venue: Lecture hall 2 | Lecture: Thrombus formation (Pa) Venue: Lecture hall 2 | Lecture: Thrombus formation continued... (Pa) Venue: Lecture hall 2 | Lecture: Embolism (Pa) Venue: Lecture hall 2 Instructor: | Lecture: Infarction (Pa) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Development of vascular system (A) Venue: Lecture hall 2 | Lecture: Circulation before & after birth (A) Venue: Lecture hall 2 | Lecture: Histology of the heart & blood vessels (A) Venue: Lecture hall 2 | Lecture: Haemodynamic (P) Venue: Lecture hall 2 |
| 10.35 – 12.30 | Group D: Pathology lab Group E: self-study | Group D: self-study Group E: Pathology lab | Group D: CSL – Block C Group E: self-study | Group D: Anatomy Lab Group E: CSL – Block C | Group D: self-study Group E: Anatomy Lab |
| 01.00 – 03.00 | Group D: Physiology SGD – Physiology lab Group E: self-study | Group D: self-study Group E: Physiology SGD – Physiology lab | Group D: Biochemistry SGD – Physiology lab Group E: self-study | Group D: Anatomy SGD – Physiology lab Group E: Biochemistry SGD – Pathology museum | Group D: self-study Group E: Anatomy SGD – Physiology lab |

CSL: Physical examination of the heart I

Anatomy Lab: Blood supply of the heart & surface markings**Physiology SGD:****Pathology SGD:****Biochemistry SGD:** Cardiac enzymes**Pathology lab:** Specimen/pictures of hyperaemia & thrombus & emboli

Group A, B & C

Week 6 (3rd September 2018)

Theme: Hypertension & Heart failure

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|--|--|--|
| 08.30 – 09.30 | Lecture: Islamiyat Venue: Lecture hall 1 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Atherosclerosis (Pa) Venue: Lecture hall 1 | Lecture: Atherosclerosis continued... (Pa) Venue: Lecture hall 1 | Lecture: Overview of Heart failure (Pa) Venue: Lecture hall 1 | Lecture: Overview of Hypertension (Pa) Venue: Lecture hall 1 |
| 09.35 – 10.30 | Lecture: Haemodynamic continued... (P) Venue: Lecture hall 1 | Lecture: Haemodynamic continued... (P) Venue: Lecture hall 1 | Lecture: Blood pressure & Short-term regulation of BP (P) Venue: Lecture hall 1 | Lecture: Long-term regulation of BP (P) Venue: Lecture hall 1 | Lecture: Pathophysiology of shock (P) Venue: Lecture hall 1 |
| 10.35 – 12.30 | Group A: Pathology Lab Group B: CSL – Block C Group C: self-study | Group A: Self-study Group B: Pathology Lab Group C: CSL - Block C | Group A: Histology lab Group B: Self-study Group C: Pathology Lab | Group A: Self-study Group B: Histology lab Group C: Self-study | Group A: CSL - Block C Group B: Self-study Group C: Histology lab |
| 01.00 – 03.00 | Group A: Pathology SGD – tutorial room I Group B: self-study Group C: Anatomy SGD | Group A: Self-study Group B: Pathology SGD – tutorial room I Group C: self-study | Group A: Physiology SGD – tutorial room IV Group B: Self-study Group C: Pathology SGD – tutorial room I | Group A: Self-study Group B: Physiology SGD – tutorial room IV Group C: Anatomy SGD | Group A: self-study Group B: Anatomy SGD Group C: Physiology SGD – tutorial room IV |

CSL: Measurement of Blood pressure

Physiology SGD:

Pathology SGD:

Pathology lab: Specimen/pictures of myocardial infarction

Histology lab: Microscopic anatomy of the arteries & veins

Group D & E

Week 6 (3rd September 2018)

Theme: Hypertension & Heart failure

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--|---|---|---|--|
| 08.30 – 09.30 | Lecture: Haemodynamic continued... (P) Venue: Lecture hall 2 | Lecture: Haemodynamic continued... (P) Venue: Lecture hall 2 | Lecture: Blood pressure & Short-term regulation of BP (P) Venue: Lecture hall 2 | Lecture: Long-term regulation of BP (P) Venue: Lecture hall 2 | Lecture: Pathophysiology of shock (P) Venue: Lecture hall 2 |
| 09.35 – 10.30 | Lecture: Islamiyat Venue: Lecture hall 2 Instructor: Prof. Dr. Shafi Mohammad Jatoi | Lecture: Atherosclerosis (Pa) Venue: Lecture hall 2 | Lecture: Atherosclerosis continued... (Pa) Venue: Lecture hall 2 | Lecture: Overview of Heart failure (Pa) Venue: Lecture hall 2 | Lecture: Overview of Hypertension (Pa) Venue: Lecture hall 2 |
| 10.35 – 12.30 | Group D: Histology lab Group E: self-study | Group D: self-study Group E: Histology lab | Group D: CSL – Block C Group E: self-study | Group D: Pathology lab Group E: CSL – Block C | Group D: self-study Group E: Pathology lab |
| 01.00 – 03.00 | Group D: Physiology SGD – Physiology lab Group E: self-study | Group D: Anatomy SGD – Pathology museum Group E: Physiology SGD – Physiology lab | Group D: Biochemistry SGD – Physiology lab Group E: Anatomy SGD – Pathology museum | Group D: Pathology SGD – Physiology lab Group E: Biochemistry SGD – Pathology museum | Group D: Group E: Pathology SGD – Physiology lab |

CSL: Measurement of Blood pressure**Physiology SGD:****Pathology SGD:****Pathology lab:** Specimen/pictures of myocardial infarction**Histology lab:** Microscopic anatomy of the arteries & veins

Group A, B, C, D & E

Week 7 (10th September 2018)

End-Module Examination

| Day/Time | Monday | Tuesday | Wednesday | Thursday | Friday |
|---------------|--------|---------|--|---|--|
| 08.30 – 09.30 | | | | | |
| 09.35 – 10.30 | | | <p>Written Paper 1 100 MCQs Anatomy: 50 MCQs Physiology: 50 MCQs Duration: 2 hours</p> | <p>Written Paper 2 50 MCQs Pathology: 25 MCQs Islamiyat: 20 MCQs Biochemistry: 03 MCQs Pharmacology: 02 MCQs Duration: 1 hour</p> | <p>Integrated Practical Examination</p> |
| 10.35 – 12.30 | | | | | |
| 01.00 – 03.00 | | | | | |