

Jordanian students returning from Sudan. Exam syllabus.

Please note:

1. The exam is an MCQ exam, you'll be asked to choose a single correct answer out of 5 choices.
2. this syllabus is a guide only; although the majority of the questions will be from this syllabus, some questions might not be covered by it.

Clinical years syllabus:

1. Pathology:

General pathology:

- cell injury: reversible and irreversible.
- necrosis: mechanisms, types and histological features.
- apoptosis: definition, intrinsic and extrinsic pathways.
- inflammation: inflammatory cells and their roles.
- inflammatory mediators: histamine, interleukins. Arachidonic acid metabolites.
- chronic inflammation: mechanisms, cells.
- granulomatous inflammation: definition, examples, cells involved.
- repair: healing by first and second intension, factors affecting wound healing.

Systems: the focus is on pathogenesis and clinical manifestations:

- GI:gastritis, gastric cancer, oesophageal carcinoma, IBD, appendicitis, celiac disease.
- MSS: osteoarthritis, rheumatoid arthritis
- Endocrine: thyroiditis and thyroid tumours, DM,pituitary adenomas, Cushing syndrome, Addison disease,
- Blood: iron def anaemia, thalassemia
- CNS: alzheimer, parkinson, gliomas, meningiomas
- GUS: glomerulonephritis, endometrial carcinoma.
- CVS: angina, MI, polyarteritis nodosa.
- Respiratory: COPD, bronchial asthma, rbonchectasis, lung cancer.

2. Pharmacology:

- Treatment of DM.
- Analgesics.
- Antifungal drugs.
- Bronchial asthma
- Anticoagulants.
- Antiplatelets.
- Anti- hypertension drugs.
- Treatment of angina.
- Treatment of heart failure.
- Anti- hyperlipedemia drugs.
- Antibiotics

3. Micro:
 - infections of the upper and lower respiratory system.
 - Infections of the gastrointestinal system.

4. Anatomy:
 - CVS: heart, its blood supply and development.
 - CNS: ascending and descending tracts of the spinal cord.
 - Spinal cord blood supply
 - Brain lobes, gyri and sulci
 - Circle of Willis
 - Basal ganglia
 - Cerebellum
 - Cranial nerves and their function.
 - GIT: stomach, liver, biliary system, blood supply of the GI.
 - respiratory: lung, blood supply
 - pleura

5. Physiology
 - physiology of CVS
 - respiratory system
 - renal physiology
 - CNS
 - GI

Third year syllabus

1. physiology
 - physiology of CVS
 - respiratory system
 - renal physiology
 - CNS
 - GI

2. anatomy:
 - CVS: heart, its blood supply and development.
 - CNS: ascending and descending tracts of the spinal cord.
 - Spinal cord blood supply
 - Brain lobes, gyri and sulci
 - Circle of Willis
 - Basal ganglia
 - Cerebellum
 - Cranial nerves and their function.
 - GIT: stomach, liver, biliary system, blood supply of the GI.
 - respiratory: lung, blood supply
 - pleura

3. biochemistry:
 - energy metabolism, TCA cycle, oxidative phosphorylation.
 - carbohydrate metabolism
 - lipid metabolism
 - protein metabolism
 - conversion of amino acids to specialised products
 - nucleic acid metabolism
 - nutrition
 - vitamins
 - Nucleic acid structure and DNA replication
 - DNA mutations and repair

4. biostatistics
 - General biostatistical and epidemiological methods.

5. Histology
 - Types of cells and tissues
 - Endothelial cells
 - Epithelial cells
 - Stromal cells (mesenchymal cells and their types and functions)
 - CNS cell types and their functions

Second year syllabus

1. Physiology
 - homeostasis
 - fluid balance
 - action potential
 - receptors

2. Anatomy
 - upper limb, flexure muscles and their nerve and blood supply and function.
 - lower limb, flexure muscles and their nerve and blood supply and function.-anatomy of the gut: stomach, small and large bowel and their blood supply
 - liver, gall bladder and biliary system and their blood supply.
 - mediastinum and its divisions.
 - brachial plexus.
 - lumbar plexus.
 - pericardium
 - heart chambers and blood supply
 - lung lobes and blood supply
 - pleura

- 3.biochemistry
 - acids, bases, pH and buffers

- carbohydrates
- lipids
- amino acids and proteins
- fibrous proteins: structure and function
- structure proteins
- enzymes, the cofactors.