Unit-1

- Basic principles of Cell injury and Adaptation:
- Introduction, definitions, Homeostasis, Components and Types of Feedback systems,
- Causes of cellular injury, Pathogenesis (Cell membrane damage, Mitochondrial damage,
- Ribosome damage, Nuclear damage), Morphology of cell injury—Adaptive changes (Atrophy, Hypertrophy, hyperplasia, Metaplasia, Dysplasia),

- Cell swelling, Intra cellular accumulation, Calcification, Enzyme leakage and Cell Death Acidosis
- &Alkalosis, Electrolyte imbalance

Basic mechanism involved in the process of inflammation and repair: Introduction, Clinical signs of inflammation, Different types of Inflammation,

Mechanism of Inflammation- Alteration in vascular permeability and blood flow, migration of WBC's,

Mediators of inflammation, Basic principles of wound healing in the skin, Pathophysiology of Atherosclerosis.

10/15 Marks

Q.1 Define basic principle of cell injury & their adaptation?

Q.2 Explain inflammation, its mechanism, types & mediators of inflammation?

5/7 Marks

Q.1 Define adaptive changes during cell injury?

Q.2 Write short note on mediators of inflammation?

Q.3 Explain the basic principles of wound healing in the skin?

2/3/ Mcq

- Q.1 What is atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia?
- Q.2 Define intracellular accumulation?
- Q.3 What is calcification?
- Q.4 Define Homeostasis?
- Q.5 Clinical signs of inflammation?
- Q.6 Causes of Cell injury?
- Q.7 Mediators involved in inflammation?

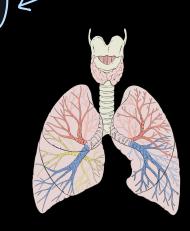
Unit-2

Cardiovascular System:

Hypertension, congestive heart failure, ischemic heart disease (angina, myocardial infarction, atherosclerosis and arteriosclerosis)



-Respiratory system: <u>Asthma</u>, <u>Chronic</u> <u>obstructive airways diseases</u>.



Blood Supply to
Heart reduce.

-Renal system: Acute and chronic renal failure

10/15 Marks

Q.1 Give a detail note on myocardial infarction?

Q.2 Explain congestive heart failure?

5/7 Marks

Q.1 Explain Asthma?

Q.2 Difference b/w Acute & Chronic Renal failure?

2/3/ Mcq

Q.1 Define Hypertension?

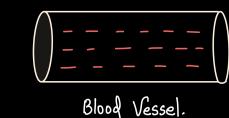
Q.2 Define atherosclerosis. ?

Q.3 Define arteriosclerosis?

Q.4 Explain COPD?

Q.5 DEFINE ISCHEMIC HERAT DISEASE?

# **Unit-3**



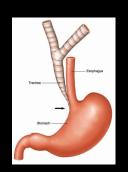
Haematological Diseases:

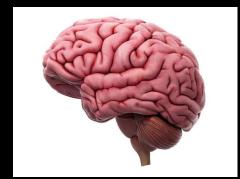
Iron deficiency, megaloblastic anemia (Vit B12 and folic acid), sickle cell anemia, thalasemia, hereditary acquired anemia, hemophilia

-Endocrine system: Diabetes, thyroid diseases, disorders of sex hormones

-Nervous system: Epilepsy, Parkinson's disease, stroke, psychiatric disorders: depression, schizophrenia and Alzheimer's disease.

-Gastrointestinal system: Peptic Ulcer





10/15 Marks

Q.1 Give a detail note on Diabetes?

Q.2 Explain Iron deficiency Anemia / Sickle Cell Anemia?

Q.3 Give a note on Alzheimer's disease?

Q.4 Write a detailed note on Parkinson's disease?

5/7 Marks

- Q.1 Write a short note on Epilepsy?
- Q.2 Explain Depression & its types?

2/3/ Mcq

- Q. 1 Define Stroke?
- Q.2 Explain Schizophrenia?
- Q.3 Define Peptic Ulcer?
- Q.4 Define Anemia?

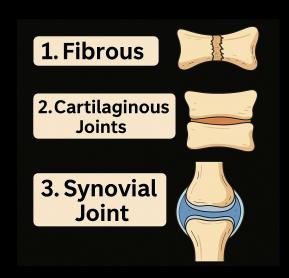
Unit-4



- Inflammatory bowel diseases, <u>jaundice</u>, <u>hepatitis</u> (A,B,C,D,E,F) alcoholic liver disease.

-Disease of bones and joints: Rheumatoid arthritis, osteoporosis and gout.

Autoimmune.



-Principles of cancer: classification, etiology and pathogenesis of cancer.



10/15 Marks

Q.1 Explain Hepatitis [A,B,C,D,E,F]?

Q.2 Give a detail note on Rheumatoid Arthritis?

Q.3 <u>Define Cancer</u>, Write down its etiology classification & Pathogenesis of Cancer?

5/7 Marks

Q.1 Define Osteoporosis?

Q.2 Explain Jaundice?

2/3 MCQ

Q.1 Define Gout?

Q.2 Define Alcoholic Liver Disease?

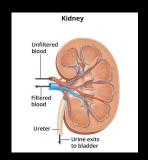
Q.3 Explain Heapatitis (A & C)?

**Unit-5** 

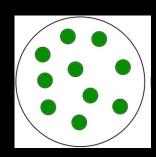
-Infectious diseases: Meningitis, Typhoid, Leprosy, Tuberculosis



-Urinary tract infections



-Sexually transmitted diseases: AIDS, Syphilis, Gonorrhea



10/15 Marks

Q.1 Give a detailed note on Tuberculosis (T.B)?

Q.2 Explain A.I.D.S ?

5/7 Marks

Q.1 Explain Meningitis?

Q.2 Write a short note on Syphilis?

2/3/MCQ

Q.1 Define Leprosy?

Q.2 Explain Gonorrhoea?