

DEPARTMENT OF PATHOLOGY
ARMY COLLEGE OF MEDICAL SCIENCES

III rd TERM (n=48+12=60)

GENERAL PATHOLOGY (n=48)

S.No	Topic	No. of Lectures
1.	Introduction to Pathology (n=1)	1
2.	Cell as a unit of health and disease (n=4) a. The genome b. Cellular Housekeeping c. Cellular metabolism and Signal transduction d. Extracellular matrix and maintaining cell populations	4
3.	Cell injury (n=6) a. Cellular adaptations b. Reversible/ Irreversible cell Injury c. Mechanism of cell injury d. Apoptosis e. Intracellular Accumulations, calcification f. Necroptosis, Autophagy and Cellular aging	6
4.	Inflammation and repair (n=7) a. Introduction & Overview b. Acute inflammation- Vascular changes c. Acute inflammation- Cellular changes d. Chemical Mediators e. Morphological patterns of Acute Inflammation f. Chronic Inflammation and systemic Effects of Inflammation g. Tissue repair	7
5.	Hemodynamic Disorders (n=6) a. Edema, Hyperaemia, congestion b. Haemostasis-overview c. Thrombosis d. Embolism e. Infarction f. Shock, DIC	6
6.	Genetics (n=3) a. Introduction and mendelian disorders b. Chromosomal disorders c. Molecular Genetic Diagnosis	3

7.	Immunity (n=6) a. Normal Immune response b. Hypersensitivity Reaction c. Autoimmune Disease d. Transplant Rejection e. Immune deficiency Syndromes f. Amyloidosis	6
8.	Neoplasia (n= 8) a. General consideration and Epidemiology b. Carcinogenesis I Molecular basis of cancer c. Carcinogenesis II Oncogenes and Tumor suppressor genes d. Angiogenesis and Metastasis e. Carcinogenesis III Genomic Instability and Epigenetics f. Chemical and Microbial Carcinogenesis g. Tumour Immunity and Paraneoplastic Syndromes h. Clinical aspects and Lab diagnosis of Cancer	8
9.	Environmental & Nutritional Disease (n=2) a. Environmental disorders: Smoking, Alcohol and Radiation b. Nutritional Disorders: PEM and Obesity	2
10.	Infectious disease (n=3) a. Syphilis b. Tuberculosis c. Leprosy	3
11.	Diseases of Infancy and Childhood (n=2) a. Non neoplastic: Neonatal RDS, Fetal Hydrops , Cystic Fibrosis b. Neoplastic: Hemangioma, Neuroblastoma, Wilm's tumor	2
	Total	48

HEAMATOLOGY (n=12)

S.No	Topic	No. of Lectures
1.	Haematopoiesis and Classification of Anaemia	
2.	Iron deficiency Anaemia	
3.	Megaloblastic Anaemia	
4.	Hemolytic aneamia 1/2	
5.	Hemolytic Anemia 2/2	
6.	Anemia of chronic diseases.	
7.	Aplastic Anemia	
8.	Bleeding disorders 1/2	
9.	Bleeding disorders 2/2	
10.	Morphology of WBCs	
11.	Benign Leucocytic Disorders	
12.	Reactive proliferation of Lymph nodes and Spleen	
	Total	12

IVth TERM (n=50+10=60)

SYSTEMIC PATHOLOGY (n=50)

S.No	Topic	No. of Lectures
12.	Blood Vessels (n=5) a. Introduction and Hypertensive vascular disease b. Atherosclerosis c. Aneurysms d. Vasculitis e. Tumors	5
13.	Cardiovascular System (n=6) a. Introduction & Heart Failure b. Ischemic Heart Disease – Pathogenesis and Angina c. Ischemic Heart Disease -MI d. Hypertension, Valvular Heart Disease e. Cardiomyopathy f. Pericarditis, Tumours	6
14.	Lung (n=8) a. Introduction, Atelectasis and Pulmonary Oedema b. COPD 1- Emphysema and Chronic Bronchitis c. COPD 2- Bronchial Asthma and Brochiectasis d. Interstitial (Occupational)Lung disease e. Granulomatous and Vascular Lung Disease f. Pneumonia and Lung Abscess g. Lung Tumors 1- Squamous cell Ca, Adenoca h. Lung Tumors 2- Small cell ca, Paraneoplastic syndrome, Neuroendocrine tumors	8
15.	Head Neck Face (n=1) Leucoplakia, Oral SCC, Salivary gland tumors	1
16.	GIT (n=10) a. Introduction and congenital abnormalities b. Oesophagus- GERD, Barret’s Oesophagus and Tumors c. Gastritis - H.pylori d. Peptic ulcer e. Tumours of Stomach f. Malabsorption Syndrome g. Ulcers of Intestine h. Inflammatory Bowel Disease i. Polyps of Intestine j. Colorectal carcinomas	10
17.	Liver and bile ducts (n=7) a. Introduction to liver, Hepatic failure, Cirrhosis, Portal HT b. Viral Hepatitis - 1 c. Viral Hepatitis – 2 d. Alcoholic liver disease e. Metabolic liver disease f. Intrahepatic biliary disease g. Neoplastic liver disease	7

18.	Gall Bladder (n=2) a. Cholelithiasis & cholecystitis b. CA gall bladder	2
19.	Pancreas (n= 3) a. Acute & chronic pancreatitis b. Diabetes c. Pancreatic tumours	3
20.	The Breast (n=2) a. Benign diseases of the Breast b. Breast tumors	2
21.	Endocrine System (n=3) a. Thyroid 1/2 - Non neoplastic Thyroid b. Thyroid 2/2 -Neoplastic lesions c. Adrenal Gland	3
22.	Bone and Joints (n=3) a. Non neoplastic diseases of Bone b. Bone tumors c. Diseases of the joints	3
	Total	50

HEAMATOLOGY (n=10)

S.No	Topic	No. of Lectures
13.	General concepts in Leukaemia	
14.	Acute Leukemia (1/2)	
15.	Acute Leukemia (2/2)	
16.	Myeloproliferative disorders	
17.	Chronic Leukemias	
18.	Immunohematology & Blood Group (1/2)	
19.	Immunohematology & Blood Groups (2/2)	
20.	Lymphoma 1/2 - Hodgkin's Lymphoma	
21.	Lymphoma 1/2 -Non -Hodgkin's Lymphoma	
22.	Multiple Myeloma	
	Total	10

Vth TERM (n=50)

SYSTEMIC PATHOLOGY (n=50)

S.No	Topic	No. of Lectures
23.	Kidney (n=9) a. Introduction & Mechanism of Glomerular Disease b. Nephritic Syndrome and RPGN c. Nephrotic Syndrome d. Diabetic Nephropathy, Amyloidosis and other cause of Secondary GN e. Chronic GN, SLE f. Tubulointerstitial disease g. Vascular disease of Kidney h. Cystic renal disease and obstruction uropathy i. Tumors of Kidney	9
24.	Male Genital and Lower urinary tract (n=3) a. Penile lesions and BPH b. CA Prostate c. Testicular Tumors	3
25.	Female Genital tract (n=5) a. Lesions of cervix b. Lesions of uterus c. Lesions of ovary 1- Non Neoplastic lesions and Surface epithelial tumors d. Lesions of the ovary 2- Germ cell tumors and sex cord stromal tumors e. Gestational Trophoblastic disease	5
26.	Skin (n=2) a. Inflammatory and Non Neoplastic Lesion b. Neoplastic Lesion	2
27.	CNS (n=5) a. Cerebrovascular diseases b. Infection of the CNS c. Prion and demyelinating disorders d. Neurodegenerating and metabolic diseases e. Tumours of CNS	5
28.	Soft tissue tumors (n=1)	1
29.	Pathology of Eye (n=1)	1
30.	Peripheral Nerve (n=1)	1
31.	Revision Classes	23
	Total	50