

**DR. D.Y. PATIL VIDYAPEETH**  
**(DEEMED TO BE UNIVERSITY)**  
 (Reaccredited by NAAC with CCPA of 3.62 on a four point scale at 'A' grade)



**DR. D. Y. PATIL COLLEGE OF NURSING**

Second Year B.Sc. Nursing

ACA/D/05

Subject: Pathology

Faculty: Department of Pathology, Dr D.Y.Patil Medical College

Mrs. Vidhya (External Faculty)

UNIT	TOPIC	No of lectures	Lecture Serial No
UNIT-I  1. Define the common terms used in pathology 2. Appreciate the deviations from normal to abnormal structure and functions of the body system 3 Hours	<b>General Pathology</b> o Introduction to pathology o Review of cell and tissues o Definition of terms o Methods & techniques o Cellular & tissue changes o Infiltration and regeneration o Inflammations and infections o Wound healing and repair	1	1
	o Nature of injuries, adaptive responses, reversible & irreversible cell injury o Cell accumulations Vascular changes Cellular growth and neoplasms	1	2
	o Normal and cancer cell o Benign and malignant growths o In situ carcinoma Disturbances of fluid and electrolyte balance, role of nurse	1	3

<p>UNIT-II</p> <p>Explain pathological changes in disease conditions of various systems</p> <p>13 Hours</p>	<p><b>Systemic Pathology</b></p> <p>□□Pathological changes in disease conditions of various systems:</p>	<p>1</p>	<p>4</p>
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	<ul style="list-style-type: none"> <li>Respiratory tract</li> <li>☐ Tuberculosis, Bronchitis,</li> <li>☐ Pleural effusion &amp; Pneumonia</li> </ul>	1	5
	<ul style="list-style-type: none"> <li>☐ Pleural effusion &amp; Pneumonia</li> <li>☐ Lung abscess, emphysema, bronchiectasis</li> </ul>	1	6
	<ul style="list-style-type: none"> <li>☐ Bronchial asthma, chronic obstructive pulmonary disease and tumours.</li> </ul>	1	7
	<ul style="list-style-type: none"> <li>☐☐ Cardiovascular system</li> <li>☐ Pericardial effusion</li> </ul>	1	8
	<ul style="list-style-type: none"> <li>☐ Rheumatic heart disease</li> </ul>	1	9
	<ul style="list-style-type: none"> <li>☐ Infective endocarditis, atherosclerosis</li> </ul>	1	10
	<ul style="list-style-type: none"> <li>☐ Ischemia, infarction &amp; aneurism</li> <li>☐☐ Gastrointestinal tract</li> <li>☐ Peptic ulcer, Typhoid</li> <li>☐ Carcinoma of GI tract – buccal, esophageal, gastric and intestinal</li> </ul>	1	11
	<ul style="list-style-type: none"> <li>☐☐ Liver, Gall bladder &amp; pancreas</li> <li>☐ Hepatitis, chronic liver abscess, Cirrhosis</li> <li>☐ Tumours of liver, gall bladder and pancreas</li> <li>☐ Cholecystitis</li> </ul>	1	12
	<ul style="list-style-type: none"> <li>☐☐ Kidneys &amp; Urinary tract</li> <li>☐ Glomerulonephritis, pyelonephritis</li> <li>☐ Calculi, Renal failure, Renal carcinoma &amp; Cystitis</li> </ul>	1	13
	<ul style="list-style-type: none"> <li>☐ Diabetes Mellitus</li> <li>☐☐ Male genital system</li> <li>☐ Cryptorchidism, testicular Atrophy</li> </ul>	1	14
	<ul style="list-style-type: none"> <li>☐ Prostatic hyperplasia, Carcinoma penis &amp; prostate</li> <li>☐☐ Female genital system</li> <li>☐ Fibroids</li> </ul>	1	15
	<ul style="list-style-type: none"> <li>☐ Carcinoma cervix &amp; endometrium</li> <li>☐ Vesicular mole, choriocarcinoma</li> <li>☐ Ectopic gestation</li> <li>☐ Ovarian cyst &amp; tumours</li> <li>☐☐ Cancer breast</li> <li>☐☐ Central Nervous System</li> </ul>	1	16

	<ul style="list-style-type: none"> <li>□ Vascular disorders – thrombosis, embolism</li> <li>□ Stroke, paraplegia, quadriplegia</li> <li>□ Tumours, meningiomas- gliomas</li> <li>□□Metastatic tumour</li> <li>□□Skeletal system</li> <li>□ Bone healing, osteoporosis, osteomyelitis</li> <li>□□Arthritis and tumours</li> </ul>		
UNIT-III	<b>Haematology &amp; Pathology</b>		
Laboratory test in assessment And monitoring of disease conditions	<ul style="list-style-type: none"> <li>□□Various blood and bone marrow tests in assessment and monitoring of disease conditions</li> <li>□ Hemoglobin</li> <li>□ RBC, white cells &amp; platelet Counts</li> </ul>	1	17
4 Hours	<ul style="list-style-type: none"> <li>□ Bleeding time, clotting time and prothrombin time</li> <li>□ Blood grouping and cross matching</li> <li>□ Blood chemistry</li> <li>□ Blood culture</li> </ul>	1	18
	<ul style="list-style-type: none"> <li>□ Serological and immunological tests</li> <li>□ Other blood tests</li> <li>□ Examination of bone marrow</li> </ul>	1	19
	<ul style="list-style-type: none"> <li>□ Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiological tests, inference and normal values</li> <li>o Nurse's role in collection and dispatch of various samples for laboratory tests.</li> <li>o Universal safety precautions</li> <li>□□Arthritis and tumours.</li> </ul>	1	20
UNIT-IV	<b>Examination of body cavity fluids, transudates and exudates</b>		
Laboratory tests for examination of body cavity fluids,transudates and exudates	<ul style="list-style-type: none"> <li>□□The laboratory tests used in CSF analysis</li> <li>□□Examination of other body cavity fluids, transudates and exudatessputum, wound discharge etc.</li> <li>□□Analysis of gastric and duodenal contents</li> </ul>	1	21
2 Hours			
Laboratory test in assessment and monitoring	<ul style="list-style-type: none"> <li>□□Analysis of semen- sperm count, motility and morphology and their importance in infertility</li> <li>□□Methods of collection of CSF and other cavity fluids specimen for</li> </ul>	1	22

of disease conditions	various clinical pathology,biochemistry, microbiology tests,inference and normal values. <input type="checkbox"/> Nurse's role in assisting and preparing the patient for these diagnostic tests		
UNIT-V  Describe the laboratory tests for examination of Urine and Faeces  1 Hour	<b>Urine &amp; Faeces</b> <input type="checkbox"/> Urine <input type="checkbox"/> Physical characteristics <input type="checkbox"/> Analysis <input type="checkbox"/> Culture and sensitivity <input type="checkbox"/> Characteristics <input type="checkbox"/> Characteristics <input type="checkbox"/> Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. <input type="checkbox"/> Methods of collection for various tests, inference and normal value	1	23
LAB-7 Hours	Museum specimens of, o Respiratory disorders	2	2
	o Tuberculosis o Cardiovascular disorders-IE, RHD, Hypertension, MI	2	4
	o Ulcers of GIT o Hepatobiliary disorders	2	6
	o Renal diseases o Female genital tract	1	7

### Bibliography - Pathology

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2. Heller : Pathology: Comprehensive Review 1999 Edition.
3. Emanuel Rubin MD, John L Farber : Pathology , III Edition , Lippincott, Philadelphia 1999.
4. Carol Mattson Porth : Pathophysiology ,VII Edition Lippincott Philadelphia 2002.
5. Ramzi S Cotran et al : Robins Pathologic basis of disease, VI Edition, W B Saunders coy USA 1999.
6. JCE Underwood : General and systemic pathology , III Edition, Churchill livingstone , Philadelphia 2000.
7. Canjanov and Linder : Anderson's pathology, X Edition , Lippincott , Philadelphia 1996.
8. Vinay Kumar MD et al : Basic Pathology , VI Edition W B Saunders coy USA 1997.
9. Walter F Coulson : Surgical Pathology , II Edition J B Lippincott coy Philadelphia, 1988.
10. Parakrama Chandrasoma : Concise pathology, III Edition, Hall International, USA,1998.
11. Lynne's Gracia, MS & David A Brucker : Diagnostic medical parasitology , III Edition ASM press, Washington'2005.
12. Haber et al : Differential diagnosis in pathology , W B Saunders coy, Philadelphia, 2002.