



Second Year B. Sc. Nursing

Subject: Pharmacology

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

Ms. Manisha Gaikwad (Internal Faculty)

UNIT	TOPIC	No of lectures	Lecture Serial No
UNIT-I Pharmacodynamics, pharmacokinetics, classification and the principles of drug administration 2 Hours	* Introduction to Pharmacology, •Definitions, •Sources, •Terminology used *Types: Classification, •Pharmaco-dynamics: Actions, therapeutic, •Adverse, toxic *•Pharmacokinetics: Absorption, distribution, metabolism, interaction, excretion	1	1
	*•Review: Routes and principles of administration of drugs *•Indian pharmacopoeia: Legal issues Storage of various drugs, Calculation of drug dosage, •Rational use of drugs, Principles of therapeutics	1	2
UNIT-II Chemotherapy, Pharmacology of commonly used drugs 5 Hours	* Chemotherapy, Pharmacology of commonly used drugs •Penicillin, infections • Cephalosporins	1	3
	Aminoglycosides infestations, •Macrolide & Broad Spectrum and nurse's responsibilities	1	4
	* Antibiotics: •Sulfonamides, •Quinolones, Antiamoebic, •Antimalarials, •Anthelmintic, *•Antiscabies agents, •Antiviral & Antifungal	1	5
	agents, •Antitubercular drugs, •Antileprosy drugs,	1	6
	••Anticancer drugs, ••Immuno-suppressants, Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse, effects, toxicity & role of nurse.	1	7
UNIT-III Pharmacology of commonly used antiseptics, anitiseptics, disinfectants and insecticides 2 Hours	* Pharmacology of commonly used antiseptics, anitiseptics, disinfectants and disinfectants, insecticides,	1	8
	* Antiseptics: Composition, and Nurse's action, dosage, route, responsibility indications, contraindications, drug interactions, side-effects, adverse effects, toxicity, and role of nurse *•Disinfectants, •Insecticide.	1	9

UNIT-IV Drugs acting on G I System 2 Hours	* Drugs acting Pharmacology of commonly used gastro-system and nurse's responsibilities * •Antiemetics, intestinal • Emetics,Purgatives, Antacids, •Cholinergic, •Anticholinergics,Fluid and Electrolyte therapy, • •Antidiarrhoeals, Histamines, Composition, action, dosage, route, indications, contraindications, drug	1	10
UNIT-V Drugs acting on G I System 2 Hours	* Drugs acting Pharmacology of commonly used gastro-system and nurse's responsibilities * •Antiemetics, intestinal • Emetics,Purgatives, Antacids, •Cholinergic, •Anticholinergics,Fluid and Electrolyte therapy, • •Antidiarrhoeals, Histamines, Composition, action, dosage, route, indications, contraindications of drug.	1	12
UNIT-VI Drugs used on Urinary System 2 Hours	*Pharmacology of commonly used on Urinary • •Diuretics and Antidiuretics systems and •Urinary antiseptics,nurse's responsibilities * •Cholinergic and anticholinergics, •Acidifiers and alkalinizes- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.	1	13
UNIT-VII Miscellaneous Drugs 3 Hours	* Drugs used in deaddiction, • •Drugs used in CPR & emergency, Deficiency of Vitamins and minerals vitamins * •Immunosuppressant	1	14
UNIT-VIII Drugs used on skin and mucus And membranes 1 Hours	Mineral, antidotes positioning, for •Anti venom immunization and •Vaccines and Sera immunosuppressant and nurse's responsibilities * •Topical applications for skin, eye, membranes and ear, nose, and buccal cavity nurse's responsibilities • •Antipruritics Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.	1	15
UNIT-IX Drugs acting on Nervous	* Drugs used on Nervous Basic & applied pharmacology of system and commonly used: nurse's responsibilities	1	16
		1	17
		1	18
		1	19

System 5 Hours		1	20
	••Analgesics & Anesthetics Non steroidal anti-inflammatory (NSAID) drugs, Antipyretics,	1	21
	Hypnotics and sedatives, Opioids, Non opioids, Tranquilizers, General	1	22
	local anesthetics, Gases – Oxygen, nitrous oxide, Carbon dioxide *•Cholinergic & anticholinergics: Muscle relaxants, Major tranquilizers, Anti psychotics, Antidepressants, Anticonvulsants, Adrenergic,	1	23
	Noradrenergics, Mood stabilizers, Acetylcholine * Stimulants, Composition, action, dosage, route, indications, contraindications, drug Interactions, side effects, adverse effects, toxicity & role of nurse.	1	24
UNIT-X Drugs used on Cardiovascular system and nurse's responsibilities 4 Hours	* Cardiovascular Drugs, Haematinics, Cardiotonics, ••Antianginals, Antihypertensives & Vasodilators	1	25
	* Anti-arrhythmics, •Plasma expanders, Coagulants & anticoagulants, •	1	26
	* Antiplatelets & thrombolytics, Hypolipidemics Composition, action, dosage, route, indications, Contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.	2	28
UNIT-XI Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities 3 Hours	•••Insulin & Oral hypoglycemic, Thyroid supplements & suppressants, •Steroids, Anabolics	1	29
	Uterine stimulants & relaxants, •Oral contraceptives, •Other estrogen –progestrone preparations, •Corticotrophine & Gonadotropines	1	30
	•••Adrenaline, Prostaglandins, •Calcitonins, Calcium salts, •Calcium regulators, Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse	1	31
UNIT-XII Demonstrate awareness of the common drugs used in alternative system of medicine	* Introduction to drugs used in alternative system of medicine – •Ayurveda, Homeopathy,	2	33
	Unani and Siddha etc	2	35

4 Hours			
UNIT	TOPIC	No of lectures	Lecture Serial No
LAB—10 Hours	Administration of medications-oral	2	2
	Administration of medications –	4	6
	Subcutaneous, intramuscular and intravenous injections	4	10

REFERENCES PHARMACOLOGY:

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and pharmacotherapeutics, 18 Edition Popular Prakashan Mumbai.
2. M M Das: Pharmacology, Books & Allied (p) Ltd, 4 Edition 2001.
3. Linda, Skidmore Roth: Mosby's 2000 Nursing Drug Reference, Mosby Inc, Harcourt Health Sciences Company, Missouri 2000.
4. Ramesh Karmegan: First aid to Pharmacology for undergraduates, Paras Medical publishers, Hyderabad, India, 1 Edition 2003.
5. K D Tripathi: Essentials of medical pharmacology, 4 Edition, Jaypee Brothers, Bangalore.
6. Govoni & Hayes: Drugs and nursing implications, 8 Edition, Appleton & Lange Newyork.
7. Rodman & Smith: Clinical pharmacology in nursing, 2 Edition, J B Lippincott company, Philadelphia.
8. Richard A Lehne : Pharmacology for nursing care , 3 Edition ,W B S aunderers company , Philadelphia, 1990.
9. Lalit Mishra: Drug Today, Vol 12, No 12, Lorina publications Inc. Delhi 2004.