



Second Year B.Sc. Nursing

ACA/D/05

Subject: Pharmacology

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

External 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 disinfectants, 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 UrinaryDiuretics and Antidiuretics systems andUrinary 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. MMDas: 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.