

Institute Code-0231

Roll No.

Pune District Education Association's
Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune.

THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmaceutics (20111)

Class- First Year D. Pharm

Max.Marks- 40

Date- 24/04/2023

Time- 90 Minutes

- Instructions:** - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following.

15 Marks

- Define ointment .Write a detail note on ointment bases
- Classify powder and granules with examples.Describe method of preparation of effervescent granules
- Describe Lal test and Rabbit test for identification of pyrogen.
- Enlist various step involve in processing of parenteral product and explain any four test evaluation of parenteral product

Q.2 Attempt any FIVE of the following.

15 Marks

- Explain formulation of ear preparation.
- Define and classify Liniments.
- Differentiate between SVP and LVP
- Mention advantages and disadvantages of injectable preparation.
- Explain various factor selection of ointment base
- What are immunological product and classify them.

Q.3 Attempt ALL of the following.

10 Marks

- Witepol is _____
i)An Ointment base ii)A gelling agent iii)A base for Paste iv)A Suppository base
- Compressed Pessaries known as _____
i)veginal tablet ii) vaginal cream iii) vaginal capsule iv) none of these
- In formulation of parenteral preparation cotton seed oil can be used as _____
i)solublising agent ii)Non aqueous vehicle iii)chelating agent iv)buffering agent
- Leak test is done on _____ in vacuum
i)Ampoule ii)Vial iii)Infusion bottles iv)None of above
- Small pox vaccine are prepared by _____
i)Hen egg ii) pigeon egg iii)ostrich egg iv)Duck egg
- The manufacture product obtained are of desired quality are covered by
i)QA ii)QC iii)Quality audit iv)None of these
- Gold nanoparticales are widely used in _____
i)Heart diseaseii)Antidiabetic Therapy iii)Cancer chemotherapy iv))None of these
- Powder used in body cavities include _____
i)Dentrifrices ii)nostrils iii)Douches iv)insufflators
- Define Nasal preparation with example.
- Define Sterile formulation with example.

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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmaceutical Chemistry (20112)

Class- First Year D. Pharm**Date-** 25 /04/2023**Max.Marks-** 40**Time-**90min**Instruction:**

- (1) All Questions are Compulsory.
- (2) Figures to the right indicate full marks.

Q.1 Attempt any Three of the following. (15 Marks)

- a) What is Parasympatholytic agent? Classify it with Suitable examples. Give the chemical structure, Chemical name & uses of Dicyclomine HCL.
- b) Draw the structure from the IUPAC name & the name of drug.
 - a) 2-(2, 4-difluorophenyl)-1, 3-di (1H-1, 2, 4-triazol-1-yl) propan-2-ol
 - b) 2-amino-1, 9-dihydro-9-[(2-Hydroxyethoxy) methyl] - 3-H-purin-6-one
- c) Define & classify antitubercular drugs with examples. Draw structure & uses of Isoniazid.
- d) Give uses, official preparations & brand name of i) Phenobarbitone ii) Diazepam

Q. 2 Attempt any Five of the following. (15Marks)

- a) Classify adrenergic drugs. Draw the Structure & give the chemical name of Naphazoline.
- b) Define sedative & Hypnotics classify them with examples.
- c) Define Thymoleptics. Give Structure & uses of Imipramine
- d) Define anticonvulsants. Discuss their uses & Draw Structure of Phenytoin.
- e) What are adrenergic drugs? Draw Structure & uses of adrenaline.
- f) Define and classify Sulphonamides with examples.

Q. 3 Objective Questions. (10 Marks)

- a) Write uses of Structure of Dapsone.
 - b) The antifungal drug, Ketoconazole contains –
 - i) Pyridine ii) Acridine
 - iii) Pyrimidine iv) Imidazole
 - c) In what dosage form Amphotericin B is given?
 - d) Name the drug used in Myasthenia Gravis.
 - e) Define Tranquillizer?
 - f) Which of the following drug is a direct acting Cholinomimetic agent?
 - i) Parathion ii) Physostigmine iii) Carbopol iv) Pyridostigmine
 - g) Draw the structure of Cisplatin.
 - h) Asthalin ® is the brand name of which drug?
 - i) State the uses of Pioglitazone hydrochloride.
 - j) Clotrimoxazole is a mixture of -----
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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacognosy (20113)

Class- First Year D.Pharm**Max.Marks-** 40**Date-** 26/04/2023**Time-** 90 Minutes

Instructions: - 1) All questions are compulsory.

2) Draw a neat labeled diagram wherever necessary.

3) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following.**15 Marks**

- a) Enlist all different systems of medicine. Describe in brief about Ayurvedic system of medicine.
- b) Give biological source, chemical constituent, commercial preparation, therapeutic and cosmetic use of Almond oil.
- c) Define Antioxidant. Explain its role as Nutraceutical.
- d) Define Phytoconstituents. Enlist stages and draw flowchart of process involved in phytochemical investigation.

Q.2 Attempt any FIVE of the following.**15 Marks**

- a) Write uses of Carotenoid and Prebiotics.
- b) Write two examples of Ayurvedic herbal formulations. Give the uses of Garlic.
- c) Write method of preparation of Arishta and Gutika.
- d) Write short note on Omega-3-fatty acid.
- e) Explain Unani system of medicine.
- f) Define and classify Nutraceuticals with example.

Q.3 Attempt ALL of the following.**10 Marks**

- a) Ayurveda means _____: i) science, ii) life, iii) Herb, iv) the science of life
- b) Homeopathic system of medicine was started by the Chemist, Physician _____.
 - i) Seydler, ii) Aristotle, iii) Samuel Hahnemann, iv) Galen
- c) Write two cosmetic uses of Olive oil.
- d) Write main chemical constituents of Rosemary oil.
- e) Give two examples of Probiotics.
- f) The word cosmetic is derived from the Greek word _____.
- g) Define: i) Herbal Cosmetic, ii) Avleha.
- h) Define Dietary Fiber with example. .
- i) PUFA belonging to linoleic group is: i) Omega-6-type, ii) Omega-3-type, iii) Fatty acid, iv) None of above
- j) Identification test performed for Carbohydrate is:
 - i) Molish Test, ii) Biuret Test, iii) Ninhydrin Test, iv) Foam Test

**Pune District Education Association's
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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Human Anatomy & Physiology (20114)

Class- First Year D.Pharm

Max.Marks- 40

Date -27/04/2023

Time- 90 Minutes

- Instructions:** - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q. 01 Solve any three of the following.

Marks 15

- a) Draw a well labeled diagram of section of eye and explain structure of eye.
- b) Write a detail note on hormones of pituitary gland.
- c) Draw a well labeled diagram of Nephron and explain in detail Renin Angiotensin System.
- d) Note down the process of oogenesis and spermatogenesis.

Q. 02 Solve any five of the following.

Marks 15

- a) Give the classification of nervous system in detail?
- b) Give the function of Retina and Kidney.
- c) Define the term hormone. List the endocrine glands with their location.
- d) Explain the terms: a) Oedema, b) Nephritis c) Diuretics.
- e) Write a note on physiology of hearing.
- f) Explain anatomy and physiology of cerebellum

Q. 03 Solve all of the following.

Marks 10

- a) Control of temperature, endocrine activity, metabolism, and thirst are functions associated with the
 - i) Medulla oblongata ii) Cerebellum iii) Hypothalamus iv) Thalamus
- b) Fertilization takes place in....
 - i) Ovary ii) Uterus iii) Fallopian tube iv) Vagina
- c) Schwann cells form a myelin sheath around the:
 - i) Dendrites ii) Cell body iii) Nucleus iv) Axon
- d) Sense of smell is perceived by.....
 - i) Pituitary ii) Hypothalamus iii) Olfactory lobe iv) Cerebellum
- e) The hormone that stimulates uterine contractions.....
 - i) Oxytocin ii) Estrogen iii) Granular cell carcinoma iv) Progesterone
- f) Organs involved in the sensation of body are known as.....
 - i) Organ system ii) Muscular system iii) Nervous system iv) Sensory system
- g) Each kidney contains approximatelynephrons
 - i) 10 million ii) 1 million iii) 100,000 iv) 10,000
- h) Calcitonin hormone is released by
 - i) Thyroid ii) Parathyroid iii) Thymus iv) Testis
- i) The renal medulla is composed of tissue called
 - i) Renal pyramids ii) Nephron iii) Renal Sinus iv) Renal pelvis
- j) Hormone responsible for "fight-or-flight" response
 - i) Thyroxine and Melatonin ii) Insulin and Glucagon iii) Epinephrine and norepinephrine iv) Oestrogen and Progesterone

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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Social Pharmacy (20115)

Class- First Year D.Pharm

Max.Marks- 40

Date-28 /04/2023

Time-90 Minutes

- Instructions:** - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following.

15 Marks

- a) Write in detail about the stakeholders involved in pharmacoeconomics.
- b) Classify national health program. Discuss functioning and outcome of AIDS control program.
- c) Which are four phases of disaster management? Write role of pharmacist in preventive phase
- d) Enlist and explain the methods of pharmacoeconomics evaluation.

Q.2 Attempt any FIVE of the following.

15 Marks

- a) Write role of pharmacist in health system.
- b) Explain functioning and outcome for Malaria disease.
- c) Enlist programs aimed at controlling non-communicable diseases.
- d) Define cost. Elaborate types of cost.
- e) Write a note on: Kala azar
- f) Explain Cost benefit analysis (CBA)

Q.3 Attempt ALL of the following.

10 Marks

- a) Health system strengthening program is _____
 - i) National Health Mission ii) LaQshya programme
 - iii) Ayushman Bharat Yojana iv) All of these
- b) AYUSH stands for ?
- c) Pharmacoeconomics focuses on
 - i) Inout cost ii) Provided healthcare system iii) Both i) and ii) iv) None of these
- d) Give any two examples of vector borne disease
- e) National mental health program was launched in the year
 - i) 1985 ii) 1982 iii) 1990 iv) 1979
- f) Define disaster management.
- g) _____ measures of quality of life in different disease states
 - i) Natural units ii) Utility units iii) Quality adjusted life years iv) None of these
- h) The pharmacist can play an integral role as members of the health care team as _____
 - i) Health service ii) Health information
 - iii) Medical products, vaccines and technologic iv) All of these
- i) The term pharmacoeconomics was coined by _____
- j) Enlist any four Non-communicable diseases.

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**Pune District Education Association's
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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacology (20221)

Class- Second Year D. Pharm
Date – 24/04/2023

Max.Marks- 40
Time- 90 Minutes

Instructions: - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q. 01 Solve any three of the following.

Marks 15

- a) Define hormone. Which is the site of action of hormone. Give characteristics of hormones.
- b) Define and classify antineoplastics.
- c) Give mechanism of action, clinical dose, adverse effect, contraindication & marketed products of Bigunides.
- d) Classify antiulcer drugs.

Q. 02 Solve any five of the following.

Marks 15

- a) What is physiological action of Histamine?
- b) Define and classify antimalarial
- c) Write a note on corticosteroids.
- d) What is asthma? Give treatment of bronchial asthma.
- e) Classify diuretic/antidiuretics.
- f) Write a note on H2 receptor antagonist.

Q. 03 Solve all of the following.

Marks 10

- a) _____ ratio of combination of sulfamethoxazole & trimethoprim is used.
- b) Enlist two marketed products of insulin.
- c) Antitussive action by suppressing central cough center is _____
- d) Give two examples of PPI.
- e) Drug of choice for all forms of gonorrhea and severe form of Lyme disease is _____
i) Penicillin-V, ii) Cefepime, iii) Ceftriaxon, iv) Cefador.
- f) Identify very potent diuretic
i) Hydrochlorothiazide, ii) Spironolactone, iii) Furosemide, iv) Acetazolamide.
- g) Identify wrong statement about biologicals
i) Biologicals for treatment of ulcerative colitis are available, ii) They may increase the risk of infection, iii) They are costly, iv) useful in majority of disease conditions
- h) The specific antidote for heparin overdose is _____
i) Phytomenadione, ii) Warfarin, iii) Coagulation factor-III, iv) Protamine sulphate
- i) Identify wrong option, regarding indication of diazepam
i) Muscle relaxant, ii) Anticonvulsant, iii) Antianxiety agent, iv) In the treatment of narcolepsy
- j) Which antiTB drug produce optic neuritis?

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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Community Pharmacy and Management (20222)

Class-Second Year D.Pharm**Date**-25/04/2023**Max.Marks**- 40**Time**-90 Minutes

- Instructions:** - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q. 01 Solve any THREE of the following.**Marks 15**

- a) Define patient counseling. Elaborate methods of patient counseling.
- b) Write in detail about PIL (Patient information leaflet).
- c) Explain role of pharmacist in counseling for OTC medicine.
- d) Write in detail steps involved in handling of mercury sphygmomanometer.

Q. 02 Solve any FIVE of the following.**Marks 15**

- a) Enlist types of pain.
- b) Define i) Health ii) Screening iii) Monitoring
- c) Write in detail about various tests of blood glucose determination
- d) What are the 5 tests in lipid profile.
- e) Write a note on rational use of medicine.
- f) Write patient counseling for COPD.

Q. 03 Solve ALL of the following.**Marks 10**

- a) PPI stands for ?
- b) Cold is a viral infection of ____ respiratory tract.
 - i) Upper ii) Lower iii) Middle iv) None of these
- c) What is the normal heart rate?
 - i) 77 beats/min ii) 79 beats/min iii) 72 beats/min iv) 82 beats/min
- d) Medication history should be taken of at least
 - i) Last 1 month ii) Last 3 months iii) Last 2 months iv) Last 4 months
- e) GERD stands for?
- f) Which one of the following is not a controlled substance?
 - i) Pethidine ii) Atropine iii) Cocaine iv) Heroine
- g) Define self medication.
- h) Drug product that can be purchased without prescription is
 - i) Narcotic drug ii) Controlled drug iii) Both i and ii iv) OTC drug
- i) What is systolic pressure?
- j) Graduate pharmacist can improve medication use by
 - i) Drug therapy monitoring ii) Patient counseling iii) Ward round participation iv) All of these

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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Biochemistry & Clinical Pathology
Class- Second Year D.Pharm
Time- 90 Min

Subject Code-20223
Max.Marks- 40
Date- 26/04/2023

Instructions: - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.

Q.01) Attempt any THREE of the following.

(15 Marks)

- a) Define Clearance. Explain creatinine clearance.
- b) Define & explain Glycogenesis. Give in brief importance of the process.
- c) Explain the Electron Transport Chain. Mention the site of ATP synthesis. Add a note on inhibitors & uncouplers of oxidative phosphorylation.
- d) Write the types & functions of RNA.

Q.02) Attempt any FIVE of the following.

(15 Marks)

- a) Discuss & draw the Watson and Crick Model of DNA.
- b) Define biotechnology. What are the different types of biotechnology?
- c) Give the details of Cori's cycle.
- d) What is the clinical significance of liver function tests?
- e) Differentiate between DNA & RNA.
- f) What is ketogenesis? Explain ketosis & ketoacidosis.

Q.03) Attempt ALL of the following.

(10 Marks)

- a) A nucleotide consists of-----
 - i) Purine + pyrimidine base + sugar + phosphorous ii) Nitrogenous base
 - iii) Purine or pyrimidine base + sugar iv) Purine or pyrimidine base + phosphorous
 - b) Kidney function tests include all the following EXCEPT—
 - i) Endocrine function ii) Excretion of metabolic waste & by-products
 - iii) Production of bilirubin iv) Regulation of plasma electrolytes, water balance, blood pressure
 - c) Write Glomerular filtration rate for an adult.
 - d) Name the ketone bodies .
 - e) Which of the following compounds cannot be used to synthesis of glucose in gluconeogenesis?
 - i) Glycerol ii) Lactate iii) Acetyl CoA iv) Amino acid
 - f) In which disease ,bile pigments appear in urine?
 - g) LFT are used in---
 - i) Diagnosis ii) Treatment iii) Both (i) & (ii) iv) None of these
 - h) What is ALT?
 - i) Define oxidative phosphorylation.
 - j) What is the impact of Biotechnology?
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THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacotherapeutics (20224)

Class- Second Year D.Pharm**Date-**27/04/2023**Max.Marks-** 40**Time-**90 Minutes

Instructions: - 1) All questions are compulsory.

2) Draw a neat labeled diagram wherever necessary.

3) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following.**(15 Marks)**

- a) Explain Etiopathogenesis of HIV & explain WHO classification of HIV infection
- b) Explain etiopathogenesis and management of psoriasis
- c) Explain etiopathogenesis and management of COVID 19
- d) Explain etiopathogenesis of PMS and explain management of polycystic ovarian syndrome.

Q.2 Attempt any FIVE of the following.**(15 Marks)**

- a) Write etiology of gonorrhoea and syphilis.
- b) Explain malaria parasite life cycle.
- c) What is an opportunistic infection ?Explain
- d) Define RA. Write diagnosis & investigation of RA
- e) Explain Pharmacological management of Osteoarthritis
- f) What are Psychiatric disorder.Explain nonpharmacological management of Depression..

Q.3 Attempt ALL of the following.**(10 Marks)**

- a) All of the following antiandrogen agent except
 - i) Finasteride A ii) Spironolactone iii) Norgestimate iv) Ciproterone
- b) Scabies is a skin disease caused by ____
 - i) Mosquito ii) Mite iii) Flea iv) Fungi
- c) Opportunistic infection and cancers start to appear in ____ stage of HIV
 - i) Primary ii) Symptomatic iii) Asymptomatic iv) AIDS
- d) Claustrophobia is ____
 - i) Phobia of height ii) Fear of open spaces iii) Phobia of blood iv) Phobia of enclosed places
- e) The first line therapy open angle Glaucoma is ____
 - i) Topical beta blocker ii) Topical pilocarpine iii) Topical Prostaglandin analogs iv) None of these
- f) The disease associated with destruction of optic nerve is ____
 - i) Conjunctivitis ii) Glaucoma iii) Cataract iv) None of these
- g) SARS stand for ____
- h) What is Schizophrenia?
- i) What is Eczema
- j) Define Conjunctivitis

THIRD SESSIONAL THEORY EXAMINATION 2022-23

Subject: Hospital & Clinical Pharmacy (20225)

Class- Second Year D.Pharm**Max.Marks-** 40**Date-** 28/04 /2023**Time-**90 Minutes**Instructions: -**

- 1) All questions are compulsory.
- 2) Draw a neat labeled diagram wherever necessary.
- 3) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following. (15 Marks)

- a) Define medication error. Discuss in detail Tallman lettering as per ISMP.
- b) Define Pharmacovigilance. Give aim and scope of Pharmacovigilance.
- c) What is Tidal & Residual Volume. Explain any four pulmonary function tests.
- d) Define Poison. Explain steps involved in treatment of poisoning.

Q.2 Attempt any FIVE of the following. (15 Marks)

- a) Give normal values with significance i) Blood Sugar, ii) Blood Cholesterol.
- b) Write a note on Drug Food Interaction.
- c) Differentiate between DIC & PIC.
- d) Define & Classify antidotes with example.
- e) Define the terms: i) Antagonism, ii) Heterergic drugs, iii) Synergism
- f) Explain the sources of drug information.

Q.3 Attempt ALL of the following. (10 Marks)

- a) Similar brand names with different generic composition is _____ category of LASA drugs.
- b) Physical examination of urine includes: i) Odour, ii) Colour, iii) Volume, iv) All of given.
- c) The term is Tall man lettering, coined by the: i) ISMP, ii) FDA, iii) WHO, iv) USFDA.
- d) The information exchange between WHO and National Centre mainly through
i) Google, ii) Vigimed, iii) Both a & b, iv) None of above.
- e) Thalidomide was used as an antiemetic and sedative agent in _____ women.
i) Pregnant, ii) Old, iii) Sick, iv) All of above
- f) Give composition of Universal Antidote.
- g) What is constitution of Poison information committee.
- h) Define: i) ADR, ii) Adverse effect
- i) LASA drugs are Look Alike, ----- Alike Medicines:
i) Seen, ii) Sound, iii) Symptom, iv) None of above
- j) An electrocardiogram is a short test done to monitor _____ activity of heart.
i) heart beat, ii) electrical, iii) both a & b, iv) None of given

Institute code 0231

Roll No.

PUNE DISTRICT EDUCATION ASSOCIATION'S
SETH GOVIND RAGHUNATH SABLE COLLEGE OF PHARMACY (POLYTECHNIC),
SASWAD, DIST. - PUNE.

Third Sessional Theory Examination 2022-23

Subject: Pharmacy Law and Ethics (20226)

Class: Second Year D. Pharm.

Max. Marks: 40

Date: 29/04/2023

Time: 2.00pm-03.30pm

Instructions: - 1) All questions are compulsory.
2) Black figures to the right indicate full marks.

Q.1 Attempt any THREE of the following.

15 Marks

- Write objective and steps of New drug Development Process.
- Define Clinical Trial. Write objectives, types & phases of Clinical trial.
- Define Bioethics. Discuss any five sections of ICMR guidelines in detail.
- Explain categories of Bio Medical Waste (BMW) & steps involved in BMW Management.

Q.2 Attempt any FIVE of the following.

15 Marks.

- Write objective and salient features of Pharmaceutical Policy 2002.
- What is Emergency use Authorization (EUA)? Write process of EUA.
- Explain Branded drugs Vs Generic drugs.
- Define Ceiling Price. Write the formula for ceiling price of Scheduled formulation.
- Write the objectives of Clinical Establishment. & Give the functions of National Council.
- Explain Documentation, Licence, renewals, e-Governance in Export of drugs & medical devices.

Q.3 Attempt ALL of the following

10 Marks

- Define Medical Device.
- Lung Ventilators are classified under which class of medical devices?
i) Class B ii) Class A iii) Class C iv) Class D
- Broken or contaminated glass is categorized in which category of biomedical waste?
i) Blue ii) Yellow iii) White iv) Red
- Define Copy Right?
- In which of the year "Indian Patent Act" came into existence?
i) 1979 ii) 1970 iii) 1984 iv) 1974
- What is life of patented drug?
i) 10yrs ii) 15yrs iii) 20yrs iv) 25 yrs
- What is the Full form of ANDA?
- Which form is required to be filled for obtaining wholesale licence?
i) Form 28A ii) 20G iii) 44 iv) 46
- While fixing the price for bulk drugs, Govt. shall take into consideration the post-tax returns of
i) 10% ii) 12% iii) 14% iv) 20%
- Define Maximum Retail Price?