

Institute Code-0231

Roll No.

--	--

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

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmaceutics (20111)

Class- First Year D. Pharm

Max.Marks- 40

Date- 06/02/2023

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) Name the factors affecting Size reduction. Explain construction and working of Hammer mill.
- b) Define packaging. Enlist type of packaging. Write selection criteria of packaging material
- c) Define Pharmacopoeia? Give the history of I.P and explain salient features of latest edition of pharmacopoeia.
- d) Explain pharmacy education in India and write historical role of BHU in pharmacy education.

Q.2 Attempt any FIVE of the following.

15 Marks

- a) What is size Reduction? Explain various mechanism of size reduction.
- b) Write composition of glass? Describe types of glass container used for pharmaceutical purpose.
- c) Define and classify pharmaceutical aids with suitable example.
- d) Explain development of pharmaceutical industry in India
- e) Discuss various modern jobs in pharmacy
- f) What is CRO? What are services provided by CRO

Q.3 Attempt ALL of the following.

10 Marks

- a) ----- is an association of welfare of Pharmacy Teachers
i) FIP ii) IPA iii) APTI iv) IPGA
- b) First Chemist shop in _____ is established by Bathgate
i) 1842 ii) 1811 iii) 1870 iv) 1815
- c) Minimum qualification of DI _____
i) D Pharm ii) B Pharm iii) Pharm D iv) Both B Pharm & Pharm D
- d) Full form of NFI is _____
i) National Family of India ii) National Forest of India iii) Both i & ii iv) None of all
- e) Lead is widely not used for _____ products.
i) Food product ii) nonfood product iii) both food & nonfood product iv) None of these
- f) Which one of the following is Regular soda lime glass ?
i) Type 1 ii) Type 2 iii) Type 3 iv) Type 4
- g) Define Flavouring agent.
- h) Define size reduction.
- i) IPC stands for _____
- j) Full form of IHPA _____

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

First Sessional Theory Examination 2022-23

Subject: Pharmaceutical Chemistry (20112)

Class: First Year D. Pharm.**Max. Marks: 40****Date: 07/02/2023****Time: 10.00am-11.30am****Instructions: - 1) All questions are compulsory.****2) Draw 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) What is limit test? Give its importance. Explain principle, chemical reaction and procedure for limit test of chloride.
- b) Give pharmaceutical formulation, marketed preparation, storage condition and uses of Aluminum Hydroxide gel
- c) State what is meant by Impurity. Enlist different sources of impurity. Describe them?
- d) Define the following terms: them as i) Haematinics ii) Antacid iii) Titrant iv) Monograph. v) Assay.

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

- a) Describe the following method for precipitation titrations-
 - i) Mohr's Draw method ii) Volhard's method
- b) Give principle & Steps involved in method of Gravimetric analysis.
- c) Explain principle, chemical reaction & Procedure for limit test of sulphate.
- d) Draw a well labeled diagram of Gutzeit apparatus (Arsenic limit test apparatus).
- e) Give brief account of i) Acid Base Titration ii) Redox Titration
- f) Draw the following organic groups i) Vinyl ii) Dimethylamino iii) Acetyl

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

- a) Haematinics are used in case of - i) iron loss ii) Decreased capacity of RBCs to carry oxygen to tissue iii) Blood loss iv) All of above
- b) Limit test involve simple comparison of i) opalescence ii) Turbidity iii) colors iv) All.
- c) Organic chemistry. is the chemistry of- i) carbon compound ii) compound with Heteroatom iii) compound with Hydroxyl group iv) compound with any elements
- d) Give the proper sequence of heteroatom for numbering of heterocyclic ring
i) O>S>N ii) N>S>O iii) S>O>N iv) O>N>S
- e) The impurities in pharmacopoeial substances may be due to i) Improper Storage Condition ii) Cross Contamination iii) manufacturing errors iv) All of the above.
- f) In limit test for Iron, purple colour is formed due to - i) Ferrous Thioglycolate ii) Thioglycolic acid iii) Ammonia iv) Dithioglycollate ion
- g) Limit test is performed in i) Nessler's cylinder ii) Separating Funnel iii) Measuring cylinder iv) Arsenic test apparatus
- h) What is Pharmacopoeia?
- i) Heavy metals include i) lead ii) Nickel iii) Cobalt iv) All of Above
- j) Define Precision?

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

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacognosy (20113)

Class- First Year D.Pharm**Max.Marks-** 40**Date-** 08/02/2023**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**

- Which parameters are considered for the evaluation of crude drug. Write any four methods of adulterations and substitutions.
- Write biological source, chemical constituents and uses of Asafoetida and Senna.
- Define Pharmacognosy. Explain in detail scope of Pharmacognosy.
- Explain Pharmacological system of classification of crude drugs with merits and demerits.

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

- Define Carminative, Give biological Source, chemical constituents of Coriander.
- Write names of drug having following chemical constituents.
i) Fenchone, ii) Gingerol, iii) Piperine, iv) Eugenol, v) Catechine, vi) Cineol
- Who, When & Where coined the term Pharmacognosy.
- Differentiate between Organised and unorganized crude drugs with examples.
- Write chemical constituents and uses of: i) Isapgghula, ii) Myrobalan, iii) Nutmeg
- Define Antitussive. Give the biological source and chemical constituents of Vasaka.

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

- Who is known as father of medicine: i) Hippocrates, ii) Aristotle, iii) Galen, iv) Theophrastus
- In alphabetical classification crude drugs are arranged according to their
i) Latin names, ii) English Names, iii) Latin & English Names, iv) None of the above
- The synonym of Aloe is: i) Tinnevely senna, ii) Ghrit kumari, iii) Chota Chand, iv) None of above
- The drugs used in the treatment of elevated blood pressure are called
i) Laxative, ii) Cardiotonic, iii) Oxytocic, iv) Antihypertensive
- Digitalis purpurea **Family:** Scrophulariaceae is biological source of
i) Arjuna, ii) Digitalis, iii) Aloe, iv) Rauwolfia
- Debasement of genuine crude drug is known as -----.
- The substances which increase evacuation of bowels are called as -----.
- Which part of the plant is used as drug for Cardamom -----.
- Locally applied protein precipitants are known as -----.
- Give name of drugs belongs to given families: i) Umbelliferae, ii) Zingiberaceae

Institute code 0231

Roll No

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

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Human Anatomy & Physiology (20114)

Class- First Year D. Pharm

Date -09/02/2023

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)

- Write a note on reproduction in cells.
- Draw a well labeled diagram of cell & explain about it.
- Define tissue . Note on various types of tissue .
- Classify in detail bones with numbers.

Q. 02 Solve any five of the following.

(Marks 15)

- Which are various types of joint. Short note on diseases of joints.
- Draw a well labeled diagram of Neuron.
- Enlist various systems of Human body.
- Note on Flagella & Mitochondria.
- Explain composition and function of Blood.
- Explain types of sutures.

Q. 03 Solve all of the following.

(Marks 10)

- Largest bone in the body is....
i)Femur ii)Maxilla iii)Carpal iv)Vomer
- Enlist any two bones of skull?
- Define physiology.
- Different chemical processes occurs continuously , together termed as....
i)Metabolism ii)Anabolism iii)Catabolism iv)Growth
- What is pathophysiology?
- Study the microscopic structure by dissection is...
i)Microscopic anatomy ii)Gross anatomy iii)Development anatomy iv)Surface anatomy
- Congenital malformation study is called as.....
i)Teratology ii)Orthology iii)Pathology iv)Physiology
- Define Homeostasis.
- Study of cell is known as....
i)Histology ii)Cytology iii)Osteology iv)Angiology
- In which body part formation of RBCs take place?

Pune District Education Association's
Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune.
FIRST SESSIONAL THEORY EXAMINATION 2022-23

Class-First Year D.Pharm
Date-10/02/2023

Subject: Social Pharmacy (20115)

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.

Marks15

- a) Discuss the stages of demographic cycle and explain methods of family planning.
- b) Define 'Immunity' and discuss its type.
- c) Give details about importance of breast feeding. Write ill effects of infant milk substitute.
- d) What is objective of National Health Mission. Explain NRHM and NUHM.

Q.02 Solve any five of the following.

Marks15

- a) Define health and explain various dimensions of health
- b) Write about hazards of water pollution and its prevention.
- c) Describe 7 priority areas for improving environment for health as per NHP 2017.
- d) Write a note on: Role of Pharmacist in Public Health.
- e) What is noise pollution. Give the sources and control measures of noise pollution
- f) Define Drug Abuse and Misuse. Give prevention measures of Drug Misuse and Abuse.

Q.03 Solve all of the following.

Marks10

- a) BCG stands for _____
- b) PHC stands for _____
 - i) Primary Hospital Centre
 - ii) Public Healthy Centre
 - iii) Primary Healthcare Centre
 - iv) Prime Human Centre
- c) The Breast Feeding Awareness Week is celebrated by WHO on
 - i) First week of August, every year
 - ii) Second week of September, every year
 - iii) First week of September, every year
 - iv) Second week of August, every year
- d) Define Immunization
- e) _____ is a permanent sterilization surgery meant for men.
 - i) Tubectomy
 - ii) Vasectomy
 - iii) Hysterectomy
 - iv) Laparoscopy
- f) FIP consist of _____ boards
 - i) 07
 - ii) 02
 - iii) 21
 - iv) 17
- g) SDG has _____ number of goals
 - i) 17
 - ii) 08
 - iii) 21
 - iv) 15
- h) Risks of illness or accidents in the workplace are known as _____ hazards.
 - i) Pharmaceutical hazards
 - ii) Water Disposal hazards
 - iii) Occupational hazards
 - iv) All of these
- i) _____ is health system in India
 - i) Public only
 - ii) Private only
 - iii) Both Public and Private
 - iv) None of these
- j) Write full form of MDG.

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

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacology (20221)

Class- Second Year D. Pharm**Date** – 07/11/2022**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) Enlist factors modifying drug action and explain any six factors.
- b) Give details about 'neurohumoral transmission'.
- c) Define bioavailability. Enlist factors affecting bioavailability and explain any four factors.
- d) Classify 'Sympathomimetic'.

Q. 02 Solve any five of the following.

Marks 15

- a) Define pharmacology. Which are various sources of drugs?
- b) Write a note on drug tolerance.
- c) Define absorption and write about 'process of absorption'.
- d) Give advantages, disadvantages & technique of administration for oral route.
- e) What is general mechanism of drug action?
- f) Draw a diagram of 'site of release of neurotransmitters'

Q. 03 Solve all of the following.

Marks 10

- a) Define systemic effect.
- b) Drug bind to receptor but not producing pharmacological effect called as _____
- c) Enlist various subtypes of Cholinergic and adrenergic receptors.
- d) Define prodrug with example.
- e) Neuromuscular blocking agents are used with conjunction with _____
- f) Which are various types of drug receptors?
- g) In the process of absorption, simple diffusion is _____
 - i) active diffusion, ii) passive diffusion, iii) both, iv) none of all.
- h) Give long form of EPSP & IPSP.
- i) Which functional groups are involving in phase-I biotransformation.
- j) Give plasma half-life of Aspirin and Digoxin.

-----XXXXX-----

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Community Pharmacy and Management (20222)

Class- Second Year D.Pharm

Date-09/11/2022

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) Define the term community pharmacy. Elaborate Global and Indian scenario/history of community pharmacy practice
- b) Elaborate Patient-Centered care activities.
- c) What is prescription. Discuss the steps involved in prescription handling.
- d) Explain Community Pharmacy Management responsibilities.

Q.2 Attempt any FIVE of the following.

15 Marks

- a) Enlist and elaborate types and parts of prescription.
- b) Define role of community pharmacist in family planning, women welfare and infant care.
- c) What is rational use of medicine. Write the 6Rs of medication administration
- d) Describe the objective and ideal qualities of SOP.
- e) Explain Dispensing errors and discuss various strategies to minimize dispensing errors.
- f) Write a note on GPP Standards.

Q.3 Attempt ALL of the following.

10 Marks

- a) Define prescription medicine and OTC medicine?
- b) RMP stands for _____.
- c) The patient Interview includes _____
 - 1) Confirm details of all drug taken
 - 2) Confirm indications still valid
 - 3) Assess adherence
 - 4) All of the above
- d) Draw a sample label with all its elements.
- e) What is red line in main label?
- f) The signature and Reg.no. of the prescriber turns the prescription into legal authentic order to ____
 - 1) Doctor
 - 2) Pharmacist
 - 3) Professional
 - 4) None of these
- g) What are Auxiliary labels?
- h) How can a community pharmacist educate his/her colleagues?
- i) Define double medication.
- j) Write Scope of pharmacist as counselor.

ALL THE BEST

Institute Code-0231

Roll No.

--	--

Pune District Education Association's
Seth Govind Raghunath Sable College Of Pharmacy (Poly), Saswad, Dist. – Pune.
FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Biochemistry & Clinical Pathology

Class- Second Year D.Pharm
Time- 90 Min

Max.Marks- 40
Date- 10/11/2022

- 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)

- Give details & schematic presentation of Krebs cycle OR Glycolysis with its energetic.
- Classify amino acid on the basis of chemical nature. Explain amphoteric nature of amino acids.
- Draw well labeled diagram of cell. Enlist the cell organelles. Describe Nucleus & Mitochondria in detail.
- What are carbohydrates? Give its detail classification with examples. Write functions of carbohydrate.

Q.02) Attempt any FIVE of the following.

(15 Marks)

- Draw the structure of-
 - Maltose
 - Fructose
 - D-glucose
- Define & classify proteins with examples.
- Explain functions of proteins.
- Define the following terms-
 - Biochemistry
 - Metabolism
 - Glycosuria
- Write a note on Protein denaturation.
- Give schematic presentation of Urea cycle.

Q.03) Attempt ALL of the following.

(10 Marks)

- Write the hydrolysis product of maltose.
- The following are deficiency diseases of proteins except.
 - Kwashiorkor
 - Marasmus
 - Nutritional oedema
 - Diabetes Mellitus
- Give examples of sulphur containing amino acids.
- Write the components of Starch.
- _____ is the general chemical test for carbohydrate.
- State the names of Epimers of glucose.
- The following is an example of non-reducing disaccharide .
 - Sucrose
 - Maltose
 - Lactose
 - Starch
- The physiological urine consist of-
 - Urea
 - Uric acid
 - Creatinine
 - All of above
- Write the general structure of amino acid.
- Define Pathological urine.

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

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacotherapeutics (20224)

Class- Second Year D.Pharm

Max.Marks- 40

Date- 11/11/2022

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) What are cardiovascular diseases? & write an account on pharmacological & non pharmacological management of hypertension
- b) What are Diabetes mellitus? Write etologic classification & explain symptom of Diabetes
- c) Define CHF? Give brief note on drug used to treat CHF & write etiopathogenesis of CHF
- d) Explain etiopathogenesis & non pharmacological management of asthma.

Q.2 Attempt any FIVE of the following.

(15 Marks)

- a) Define Pharmacotherapeutic. Write scope & objective of Pharmacotherapeutics?
- b) Define & explain standard treatment guidelines.
- c) What are angina. Write note on clinical manifestation & nonpharmacology of angina.
- d) Explain etiopathogenesis & clinical manifestation of MI.
- e) Define Hyperlipidemia. Write pharmacology of Hyperlipidemia
- f) Define COPD. Explain etiopathogenesis of COPD.

Q.3 Attempt ALL of the following.

(10 Marks)

- a) The first NLEM of India consisting of _____ medicines
i) 354, ii) 399, iii) 279, iv) 348
- b) Which one of the following is related with EBM
i) Pharmacoeconomic ii) Pharmacogenetic iii) Socioeconomic status iv) none of all
- c) Select the second line lipid lowering drug from following.
i) Ezetimibe ii) Pravastatin iii) lovastatin iv) fluvastatin
- d) Which one of the following drug is trigger factor for asthma?
i) Atenolol ii) Insulin iii) Salbutamol iv) Vitamin K
- e) Diagnostic parameter for prediabetes is OGTT _____ mg/dl
i) 100-125 ii) 140-199 iii) 200-250 iv) 250-300
- f) Define the term patient value.
- g) Define ischemia
- h) What is wheeze.
- i) First choice of pharmacotherapy for type 2 diabetes mellitus is
i) Metformin ii) Glipizide iii) Sitagliptin iv) Acarbose
- j) Define emphysema.

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Hospital & Clinical Pharmacy (20225)

Class- Second Year D.Pharm**Max.Marks-** 40**Date-** 12/11/2022**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 in detail about scope, National & International scenario of Hospital Pharmacy.
- b) Explain in detail removal, handling of Expiry Drugs. Discuss Disposal of Expiry drug & Narcotics.
- c) Give composition of Infection control committee, Discuss responsibilities of Pharmacist related to Antimicrobial Stewardship Program.
- d) Define Purchasing, Explain in detail steps involved in purchase procedure.

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

- a) What are goals of Antimicrobial Stewardship Program (ASP)??
- b) Define PTC, give composition of Pharmacy and Therapeutic Committee?
- c) Discuss role of Pharmacist in NABH accreditation.
- d) Give note on High risk Drugs OR Emergency Drugs.
- e) Write methods of calculating EOQ with formulae.
- f) Write temperature conditions for: i) Storage at ambient temperature, ii) Keep cold, iii) Frozen storage

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

- a) The FIP Basel Statements can be split into _____ areas.
i) 5, ii) 7, iii) 2, iv) 4
- b) The hospital accreditation program was started in the year _____.
i) 2022, ii) 2015, iii) 2005, iv) 1997.
- c) ICC stands for _____.
i) Internal Control Committee, ii) Inspection Control Committee
iii) Infection Control Committee, iv) All of above
- d) Primary purpose of the Pharmacy and Therapeutic Committee is to act as
i) Advisory, ii) educational body, iii) both a & b, iv) None of above
- e) FIP stands for _____.
i) International Pharmaceutical Federation, ii) Internal Pharmacy Form
iii) Internal Pharma Faculty, iv) None of above
- f) The drugs that bear a heightened risk of causing significant patient harm are known as
i) Emergency drugs, ii) High Risk drugs, iii) Treatment drug, iv) NDPS drugs
- g) AWARe group of Antibiotics includes: a) Access b) Watch c) Reserve d) All of above
- h) FEFO stands for _____.
i) First Expire First Out, ii) First Expect First Out, iii) First Expire First Outcome, iv) All of above
- i) Devices used for storage & distribution of vaccines includes
i) Refrigerator, ii) ILR, iii) Walk-in-Cold Room, iv) All of above
- j) Define Hospital Pharmacy.

--	--

FIRST SESSIONAL THEORY EXAMINATION 2022-23

Subject: Pharmacy and law Ethics (20226)
Class- Second Year D. Pharm

Date – 14/11/2022

Max.Marks- 40
Time- 90 Minutes

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

Q. 01 Solve any three of the following.

Marks 15

- Give the function and constitution of PCI as per Pharmacy Act 1948?
- Write the objectives of NDPS Act 1985. Discuss briefly about offences and penalties of NDPS Act 1985.
- Define Magic Remedies. Write in detail about classes of advertisements prohibited under the Drug & Magic Remedies Act.
- Write the objectives of MTP Act, 1971. Explain conditions under which pregnancy can be terminated.

Q. 02 Solve any five of the following.

Marks 15

- Differentiate between State and Joint State Pharmacy Council.
- Define a) Narcotic drug b) Psychotropic drug c) Manufactured drug.
- Explain the offences and penalties under Pharmacy Act 1948?
- Define Poison. Give objectives and classification of poison as per Poison Act 1919.
- Enlist the General Principles of law & explain all in brief?
- Define Education Regulation. Mention the standards, regulations prescribed for Education regulation.

Q. 03 Solve ALL of the following.

Marks 10

- A person having the care of a minor or a lunatic _____
i) Minor ii) Major iii) Guardian iv) owner
- Government appointed a “_____” under the Chairmanship of Lt.Col.R.N.Chopra in 1931
- Arsenic is categorized in _____ under poison Act, 1919
i) List A ii) List B iii) Both of them iv) None of them.
- For the first time in India, a chemist shop was opened in about 1811 by
i) Mr. Bathgate ii) Mr. Gujjar iii) R.N. Chopra iv) Dr. Ghosh
- In Elected member of PCI Six member elected by _____
- Define Addict?
- Any notice, circular, label, wrapper or otherwise such document is known as _____
- Write the main objectives of Drug and magic remedies act?
- Write the penalty for unlawful possession for sale and sale of poison.
- Constitution of Pharmacy council of India under section ____ of the chapter _____ by the Central government. i) 3,1 ii) 4,1 iii) 1,3 iv) 2,2

-----XXXXX-----