

Institute Code-0231

Roll No.

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

FIRST SESSIONAL THEORY EXAMINATION 2023-24

Subject: Pharmaceutics (20111)

Class- First Year D.Pharm

Max.Marks- 40

Date- 30/10/2023

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

- Write a note on history & current scenario of Indian pharmaceutical industry.
- Define packaging. Enlist type of packaging. Write selection criteria of packaging material.
- Define Pharmacopoeia? Give the history of I.P and explains silent features of latest edition of I.P
- Define Size Reduction. Describe principal ,construction, working & application of Ball mill.

Q.2 Attempt any FIVE of the following.

15 Marks

- Explain various mechanism of size reduction.
- Explain various types of glass used for making containers.
- Define and classify pharmaceutical aids with suitable example.
- Write historical role of BHU in pharmacy education.
- Discuss various modern jobs in pharmacy.
- Give various pharmacy associations with their basic purposes.

Q.3 Attempt ALL of the following.

10 Marks

- become the first pharmacy graduate in India from BHU
 - Manjushree Pal
 - Sheovihari Lal
 - Gorakh Prasad Shrivastava
 - Subhadra Kumar Patni
- Cyclone Separator is also known as -----
 - Dust collector
 - Dust extractor
 - Dust separator
 - All of these
- Type IV glass is not used for packaging of -----
 - Parental product
 - Oral preparation
 - Topical preparation
 - None of these
- AIDCOC stands for _____
- What is CRO?
- Define Size separation
- Define Colouring agent with example.
- What is unit operation?
- The current USP-NF contains more than _____ monograph
- Artificial cherry flavour is made from _____
 - Benzoic acid
 - Ethyl alcohol
 - Allyl Benzoate
 - None of these

**Pune District Education Association's
Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist-Pune.
Second Improvement Sessional Theory Examination 2023-24**

Subject: Pharmaceutical Chemistry (20112)

Class- First Year D. Pharm**Max.Marks-** 40**Date-** 04 /11/2023**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 hypertension. Draw structure and give storage condition & uses of Propranolol.
- 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) Classify antihypertensive agents. Give the uses, pharmaceutical formulation & brand name of Captopril.
- f) Define and classify Sulphonamides with examples.

Q. 3 Objective Questions.**(10 Marks)**

- a) Draw the Structure of Dapsone.
 - b) The antifungal drug, Ketoconazole contains –
 - i) Pyridine
 - ii) Acridine
 - iii) Pyrimidine
 - iv) Imidazole
 - c) In what dosage forms Amphotericin B is given?
 - d) Give the name of two drugs used in Myasthenia Gravis.
 - e) Define Tranquillizer?
 - f) Which of the following drug is a direct acting Cholinomimetic agent?
 - i) Parathion
 - ii) Physostigmine
 - iii) Carbachol
 - iv) Pyridostigmine
 - g) Select the drug from the following which acts as Alkylating anticancer agents.
 - i) 5-Fluorouracil
 - ii) Cyclophosphamide
 - iii) Doxorubicin
 - iv) Vincristine
 - h) What is Cardiac arrhythmia?
 - i) Crocin ® is the brand name of _____
 - i) Aspirin
 - ii) Paracetamol
 - iii) Ibuprofen
 - iv) Diclofenac
 - j) Clotrimoxazole is a mixture _____
- _____

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

FIRST SESSIONAL THEORY EXAMINATION 2023-24

Subject: Pharmacognosy (20113)

Class- First Year D.Pharm

Max.Marks- 40

Date- 01/11/2023

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 Adulteration. Explain any four methods of adulterations with suitable examples.
- b) Define Pharmacognosy. Explain in detail scope of Pharmacognosy.
- c) Explain Alphabetical system of classification of crude drugs with merits and demerits.
- d) Define Carminative. Give biological source, chemical constituents of Coriander & Fennel.

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

- a) Define Antihypertensive, Give biological Source and chemical constituents of Rauwolfia.
- b) Who, When & Where coined the term Pharmacognosy.
- c) Differentiate between organized and unorganized crude drugs with examples.
- d) Define Antitussive. Give the biological source and chemical constituents of Vasaka.
- e) Define Crude drug & Drug Evaluation, Enlist various methods of drug evaluation.
- f) Define: Ash value, Stomatal Number & Stomatal Index.

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

- a) The substances which increase evacuation of bowels are called as -----.
- b) Who is known as father of medicine: i) Hippocrates, ii) Aristotle, iii) Galen, iv) Theophrastus
- c) Which part of the plant is used as drug for Cardamom & Nutmeg.
- d) Name pungent constituent present in Ginger_____.
- e) Write contribution of Galen.
- f) Jesuit's bark is synonym for; i) Cinnamon, ii) Cinchona, iii) Clove, iv) Isapgghula
- g) Mention families of; i) Aloe, ii) Senna
- h) Write name of drugs having synonyms: i) Grains of paradise, ii) Indian Snake root
- i) Write name of drug belonging to Zingiberaceae & Piperaceae.
- j) Pharmacognosy word is derived from two Greek words _____ & _____.

PUNE DISTRICT EDUCATION ASSOCIATION'S
Seth Govind Raghunath Sable College of Pharmacy (Polytechnic) Saswad, Pune
First Sessional Theory Examination 2023-2024.

Subject: -Human Anatomy & Physiology (20114)

Class: - F.Y.D.Pharm.**Maximum Marks: - 40****Date: - 02/11/2023****Time: - 90 Minutes**
-----**Instructions: -** 1. All questions are compulsory.

2. Illustrate your answers with neat sketches wherever necessary.

3. Black Figures to the right indicate full marks

Q.1) Attempt any THREE of the following. (Long Answer Questions) (15 marks)

- a. Give composition and Functions of blood
- b. Describe in detail epithelial tissue.
- c. Explain the Blood flow through the heart with the diagram.
- d. Name the fundamental types of tissue. Draw well labelled diagram of a Neuron.

Q.2) Attempt any FIVE of the following. (Short Answer Questions) (15 marks)

- a. Describe Clotting mechanism of the blood.
- b. Differentiate between Smooth and skeletal muscles.
- c. Give normal count of: (a) Erythrocytes (b) Leukocytes (c) Thrombocytes
- d. Define Anatomical Position, Anatomy, System.
- e. Define cell with its diagram.
- f. Describe Lymph node with its diagram.

Q.3) Solve the following multiple choice questions. (10 marks)

a) The smallest structural and functional unit of an organism is a -----
1. Cell 2. Tissue 3 Mitochondria 4 . Ribosomes

b) A tube shaped cavity within a bone is called.....
1 Sinus 2 Meatus 3 Foramen 4 Fossa

c) is called power house of cell.
1.Mitochondria 2 Ribosomes 3 Lysosomes 4 Golgi apparatus

d) Blood and Bones are of..... tissue
1 Epithelial 2 Connective 3 Muscle 4 Nervous

e) Classify White blood cells.

f) The function of Ribosome is
1 Production of ATP 2 Protein synthesis 3 Storage of Proteins 4 Digestion of proteins

g) is a tissue fluid and clear watery solution with white blood cells
1 Lymph 2. Blood 3. Plasma 4. Serum

h) Name the artery which carries deoxygenated blood to the Lungs.

i) Define Fossa and Foramen

J) Name the cartilages as a connective tissue

Pune District Education Association's
Seth Govind Raghunath Sable College of Pharmacy (Poly), Saswad, Dist.-Pune.
FIRST SESSIONAL THEORY EXAMINATION 2023-24

Subject: Social Pharmacy (20115)

Class-First Year D.Pharm**Date-03/11/2023****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) What do you mean by demography. Draw and discuss the stages of demographic cycle in detail.
- b) Write in detail role of pharmacist in Public Health.
- c) What is health? Explain various dimensions of health.
- d) Define Drug Abuse and Misuse. Give prevention measures of Drug Misuse and Abuse along with classification.

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

- a) Write a note on NHP 2017.
- b) Define 'Immunity' and discuss its types.
- c) Give details about importance of breast feeding
- d) Write about hazards of water pollution and its prevention.
- e) Write in detail irreversible method of family planning.
- f) What is rational use of medicine? Write the 7Rs of medication administration.

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

- a) Define Social Pharmacy.
- b) _____ is health system in India
 - i) Public only ii) Private only iii) Both Public and Private iv) None of these
- c) Birth rate is a crude measuring _____ of a population.
 - i) Education b) Health status c) Fertility d) All of these
- d) IUCP stands for _____
- e) FIP consists of _____ boards
 - i) 7 ii) 2 iii) 9 iv) 21
- f) Write any two causes of air pollution.
- g) SDG stands for _____
- h) _____ is a permanent sterilization surgery meant for women.
 - i) Tubectomy ii) Vasectomy iii) Hysterectomy iv) Laparoscopy
- i) First National Health Policy was launched in _____
 - i) 2014 ii) 2002 iii) 1985 iv) 1983
- j) Give full form of i) OPV ii) BCG

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

FIRST SESSIONAL THEORY EXAMINATION 2023-24

Subject: Pharmacology (20221)

Class- Second Year D. Pharm

Date – 09/10/2023

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

- Define and classify cholinergic agents. Write the pharmacological action of acetyl choline on blood vessels, blood pressure, eye and exocrine gland.
- Explain different mechanisms of drug absorption.
- How the following factors responsible to modify drug action - i) Age, ii) Time of administration, iii) Environment, iv) Accumulation & v) Synergism.
- Give pharmacological action, indication, adverse effect, contraindication and marketed product of Aspirin.

Q. 02 Solve any five of the following.

Marks 15

- Give advantages and disadvantages of parenteral route of administration.
- Write a note on glaucoma.
- What do you mean by NSAID. Classify it.
- Explain different mechanism of drug action.
- Write a note on tolerance.
- Give ideal properties of local anaesthetic agents.

Q. 03 Solve all of the following.

Marks 10

- What drug does with the body called as _____
- Antidote of atropine is _____
- Which of the following drug reduce intraocular pressure in eye
i) Pilocarpine, ii) Timolol, iii) Acetazolamide, iv) all
- Define pharmacology.
- Receptors are usually _____
- A common side effect with all NSAID drugs is
i) Drowsiness, ii) Constipation, iii) Xerostomia, iv) Gastric irritation
- The Phase-I reaction is _____
i) Conjugation, ii) Hydroxylation, iii) Glucuronidation, iv) Sulfation.
- Give one use of miotics and mydriatics.
- Define 'cyclopegia'.
- What do you mean by biotransformation of drug.

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

FIRST SESSIONAL THEORY EXAMINATION 2023-24

Subject: Community Pharmacy and Management (20222)

Class- Second Year D.Pharm

Max.Marks- 40

Date-10/10/2022

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) Elaborate Patient-Centered care activities.
- b) Write in detail scope of Community Pharmacy.
- c) Draw labeled format of prescription. Explain parts of prescription.
- d) What are the causes of dispensing errors? Enlist strategies to minimize dispensing errors.

Q.2 Attempt any FIVE of the following.

15 Marks

- a) What is rational use of medicine? Write the 7Rs of medication administration.
- b) Describe global and Indian history of Community Pharmacy Practice.
- c) Write a note on content of SOP.
- d) Draw dispensing process flow chart.
- e) Explain steps involved in prescription handling.
- f) Write a note on Health information and pharmaceutical care.

Q.3 Attempt ALL of the following.

10 Marks

- a) RMP stands for _____.
- b) In which year first degree program in pharmacy was started at BHU?
i) 1940 ii) 1937 iii) 1932 iv) 1900
- c) The minimum qualification for registration as a registered pharmacist is
i) Diploma in pharmacy ii) Master of Pharmacy
iii) Bachelor of Pharmacy iv) Doctor of Pharmacy
- d) What are pictograms?
- e) CDSCO stands for _____.
- f) Shake well before use is a labeling requirements for _____
- g) Define prescription.
- h) PCI was constituted on _____
i) 4th March 1948 ii) 7th August 1980 iii) 10th October 1995 iv) 5th October 1947
- i) Rx in prescription stands for _____
- j) Which of the following professional is not usually a prescriber?
i) Doctor ii) Pharmacist iii) Veterinary Doctor iv) Dentist

Subject: Biochemistry & Clinical Pathology (BCT 20223)

Class- Second Year D.Pharm

Max.Marks- 40

Time- 90 Min

Date- 11/10/2023

- Instructions:** - 1) All questions are compulsory.
2) Draw a neat labeled diagram wherever necessary.
3) Black figures to the right indicate full marks.
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Q.01) Attempt any THREE of the following.**(15 Marks)**

- Give schematic presentation of Kreb cycle with its energy details.
- Define Glycolysis. schematic presentation of Glycolysis with energy details.
- Draw a 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
 - D- fructose
 - D-glucose
- Define the following terms-
 - Biochemistry
 - Metabolism
 - Glycosuria
- Classify amino acids on the basis of chemical nature with examples of each.
- Enlist the types of anemia. Explain Megaloblastic & Sickle cell anemia.
- Write the chemical reactions involved in osazone test for glucose.
- Define & classify proteins with examples.

Q.03) Attempt ALL of the following.**(10 Marks)**

- The following is an example of non-reducing disaccharide.
 - Sucrose
 - Maltose
 - Lactose
 - Starch
 - Draw general structure of amino acids.
 - Write the components of Starch.
 - Give examples of sulphur containing amino acids.
 - _____ is the general chemical test for carbohydrate.
 - State the Epimers of glucose.
 - Write the hydrolysis product of lactose.
 - The physiological urine consist of-
 - Urea
 - Uric acid
 - Creatinine
 - All of the above
 - The following are examples of optically active amino acids EXCEPT
 - Tyrosine
 - Alanine
 - Glycine
 - Serine
 - Which one is the largest particulate of the cytoplasm?
 - Endoplasmic reticulum
 - Mitochondria
 - Golgi apparatus
 - Lysosomes
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PUNE DISTRICT EDUCATION ASSOCIATION'S
Seth Govind Raghunath Sable College of Pharmacy (Polytechnic), Saswad, Pune
First Sessional Theory Examination 2023-2024.

Subject: Pharmacotherapeutics (20224)

Class: - S.Y.D.Pharm.

Date: - 12/10/2023

Maximum Marks: - 40

Time: - 90 Minutes

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

Q.1) Solve any THREE of the following. (Long Answer Questions) (15 marks)

- a. What is Iron deficiency Anemia? Give the etiopathogenesis, Clinical manifestations and Management of Iron deficiency Anemia
- b. Explain the classification of Asthma and COPD with Pharmacological Management.
- c. Write a note on Essential Medicines List.
- d. What is Hypertension? Give the etiopathogenesis, Clinical manifestations and Pharmacological and Non pharmacological treatment of Hypertension.

Q.2) Solve any FIVE of the following. (Short Answer Questions) (15 marks)

- a. Give its scope and objectives of Pharmacotherapeutics.
- b. State diagnosis tests for asthma and Anemia
- c. Give types of Angina with Pharmacological Management.
- d. Write about STGs with its features.
- e. What is EBM and NLEM?
- f. Define Hyperlipidemia with its types and clinical manifestations.

Q.3) Solve the following multiple choice questions. (10 marks)

- a) What type of Medicines satisfy the priority of healthcare needs of the population?
- b) EBM and NLEM stands for -----
- c) State the first line lipid lowering drugs
- d) The condition in which heart can not pump enough blood to meet the body's needs.
1 Hypertension 2 Angina 3 Congestive Heart Failure 4 Myocardial Infarction
- e) The Current NLEM India contains----- medicines
1. 354 2. 376 3. 399 4. 508
- f) Identify the chronic inflammatory disease
1. Asthma 2 Diabetes 3 Cancer 4 Myasthenia Gravis.
- g) Hyperlipidemia is a condition of having serum concentration of total cholesterol more than----
- h) is a salient killer disease.
1 Hypertension 2 COPD 3 Emphysema 4 Myocardial infarction
- i) Define Pharmacotherapeutics
- j) Give recommended surgeries for Angina when medicines are not helping to control it.

FIRST SESSIONAL THEORY EXAMINATION 2023-24**Subject: Hospital & Clinical Pharmacy (20225)****Class-** Second Year D.Pharm**Date-** 13/10/2023**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**

- What is inventory control? Enlist different techniques of inventory control. Explain the ABC analysis method of Inventory control.
- Write a note on "FIP Basal Statement" on the future of hospital Pharmacy.
- Define Hospital Pharmacy. Give objectives of Hospital Pharmacy.
- Define PTC. Give its composition, explain PTC role in drug safety.

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

- Explain in short various disposal methods used for pharmaceutical wastes.
- Explain in detail the FIFO and FEFO method with its advantages and disadvantages.
- Describe the role of pharmacists in preventing antimicrobial resistance.
- Define "Good Pharmacy Practices". Give requirements of good pharmacy practice.
- Give Composition of ICC. Explain responsibilities of infection control Team.
- Define Hospital Formulary. Describe contents of hospital formulary.

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

- Give the long form of NABH
- For hospitals with bed strength 500, the number of pharmacist requirements is ____.
- number of copies of purchase order are prepared.
- Define High Risk drugs.
- Dictionaries and encyclopedias are _____ sources of Drug Information.
- Hospital Pharmacist is responsible for: i) Counseling, ii) Dispensing, iii) Storage, iv) All of given
- The hospital formulary consists of list of _____ in hospital.
 - Instrument, ii) Drugs, iii) Staff, iv) Patients
- The hospital accreditation program was started in the year: i) 2022, ii) 2015, iii) 2005, iv) 1997
- AWaRe group of Antibiotics includes: i) Access, ii) Watch, iii) Reserve, iv) All of given
- Devices used for storage & distribution of vaccines includes
 - Refrigerator, ii) ILR, iii) Walk-in-Cold Room, iv) All of given

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Pune District Education Association's
SETH GOVIND RAGHUNATH SABLE COLLEGE OF PHARMACY (POLYTECHNIC),
SASWAD, DIST. - PUNE.

First Sessional Theory Examination 2023-24

Subject: Pharmacy Law and Ethics (20226)

Class: Second Year D. Pharm.

Date: 14/10/2023

Max. Marks: 40

Time: 10.00am-11.30am

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

- a) Define Registered Pharmacist. Give the objectives of Pharmacy act 1948. & Discuss any three offences & penalties under Pharmacy act 1948.
- b) Define code of ethics. Discuss the code of ethics for pharmacist in relation to his job.
- c) Define Magic Remedy. What are the objectives of Drug & magic remedies act, 1954. Give three classes of advertisements prohibited under DMR act. 1954.
- d) Give the procedure for preparing First register & what qualification is required for entry in First register as per Pharmacy Act. 1948?

Q.2 Attempt any FIVE of the following.

15 Marks

- a) What are the offences and penalties under the Drug and Magic Remedies (O.A.) Act 1954.
- b) Give provisions for sale & possession of poison under Poison act 1919.
- c) Give the experience & training of Registered Medical Practitioner required for termination of pregnancy as per MTP Act. 1971.
- d) Define Captive animals. Write the objectives of the Prevention of Cruelty to Animals Act. 1960.
- e) Explain the procedure of solving the ethical problems.
- f) Describe the Education Regulation as per Pharmacy Act. 1948?

Q.3 Attempt ALL of the following

10 Marks

- a) Following are the ex-officio members of PCI except
 - i) Drug inspector
 - ii) Director of General Health services
 - iii) Drug controller of India
 - iv) Director of Central Drug Laboratory
- b) Requirement of Blood bank is given in Schedule -----of Drug & Cosmetics rules 1945.
- c) Medical termination of pregnancy is safe upto
 - i) 12Weeks
 - ii) 18 Weeks
 - iii) 6Weeks
 - iv) 10 Weeks
- d) CPCSEA stands for -----?
- e) According to the Prevention to cruelty to animals act, 1960 Animal means any living creature except
 - i) Birds
 - ii) Animals
 - iii) Human being
 - iv) Microorganism
- f) Minimum training required to be a pharmacist - i) 100hr ii) 200hrs iii) 300hr iv) 500hrs
- g) Define the Minor?
- h) Minimum hemoglobin value required for a donor-blood is -----gm/dl?
- i) ----- Government may regulate the possession and sale of any specified poison.
 - i) Central
 - ii) Poison control authority
 - iii) State
 - iv) Poison rehabilitation bureau
- j) Codes of Pharmaceutical Ethics developed by -----?