

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 2023-24**

**Subject: Pharmaceutics (20111)**

**Class-** First Year D. Pharm

**Max.Marks-** 40

**Date-** 26/03/2024

**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) Describe various types of Suppository bases.
- b) Classify powder and granules with examples. Describe method of preparation of effervescent granules.
- c) Define Pyrogen. Describe LAL test and Rabbit test for identification of Pyrogen.
- d) Define Drug delivery system. Describe various challenges in development of NDDS.

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

**15 Marks**

- a) Write a note on Poliomyelitis vaccine.
- b) Explain formulation of Ear preparation.
- c) Differentiate between SVP and LVP
- d) Classify NDDS with example.
- e) Give note on Calibration & Validation.
- f) Draw & describe layout of pharmaceutical manufacturing plant.

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

**10 Marks**

- a) Give two examples of Antioxidant.
- b) Define Displacement value with example.
- c) Sputnik V (Covid 19 vaccine) is, \_\_\_\_\_  
i) mRNA vaccines ii) DNA vaccines iii) Viral vector vaccine iv) None of these
- d) Name the cultural medias used for sterility testing.
- e) Qualification is mainly part of \_\_\_\_\_  
i) Validation ii) Calibration iii) Testing iv) Manufacturing
- f) Define i) Liniment ii) Lotion.
- g) What are insufflation?
- h) Mention any two newer preservative of ophthalmic preparation.
- i) Compressed pessaries are also known as \_\_\_\_\_  
i) Vaginal Tablets ii) vaginal capsules iii) vaginal suppositories iv) vaginal creams
- j) Define Nasal preparation with example.

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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

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**Subject: Pharmaceutical Chemistry (20112)**

**Class-** First Year D. Pharm**Max.Marks-** 40**Date-** 27 /03/2024**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 & Puses of Dicyclomine HCL.
- b) Draw the structure from the IUPAC name & the name of drug.
  - i) 2-(2, 4-difluorophenyl)-1, 3-di (1H-1, 2, 4-triazol-1-yl) propan-2-ol
  - ii) 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. Draw Structure & give the uses of Phenytoin.
- e) What are adrenergic drugs? Draw Structure & give uses of adrenaline.
- f) Define and classify General Anesthetics with examples.

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

- a) Write Structure of Chloroquin phosphate.
- b) The antifungal drug, Ketoconazole contains ----heterocyclic ring
  - 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) Carbachol                      iv) Pyridostigmine
- g) Acetyl choline is-----
  - i)Cholinergic blocker                      ii)Adrenergic blocker
  - iii)Adrenergic agent                      iv)Cholinergic agent
- h) Give the pharmaceutical formulations of Sulphacetamide.
- i) Write Brand name of Ramdesivir -----
- j) -----is an imidazoline derivative and a direct active sympathomimetic amine with vasoconstrictive activity.

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THIRD SESSIONAL THEORY EXAMINATION 2023-24

Subject: Pharmacognosy (20113)

Class- First Year D.Pharm

Max.Marks- 40

Date- 28/03/2024

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 and classify pharmaceutical aids with examples.
- Give biological source, chemical constituents, commercial preparation, therapeutic and cosmetic use of Sandalwood oil.
- Define Enzyme. Give biological source, chemical constituents & uses of i) Papaya, ii) Diastase.
- Define oxytocic, explain life cycle of ergot with diagram.

Q.2 Attempt any FIVE of the following.

(15 Marks)

- Define Nutraceuticals & Antioxidants. Give therapeutic applications of both.
- Mention commercial preparation and cosmetic uses of i) Aloe, ii) Olive oil.
- Discuss the role of medicinal and aromatic plants in national economy.
- State the uses of following drugs: i) Garlic, ii) Lanolin, iii) Spirulina
- Define Vitamin, Give biological source & chemical constituent of Shark liver oil.
- Define Anti-rheumatic. Give biological source & chemical constituent of Colchicum.

Q.3 Attempt ALL of the following.

(10 Marks)

- Define Antidiabetic with examples.
- Give name of drug having synonyms: i) Wonder beans, ii) Oleum morrhua.
- The plants giving specific aroma are known as \_\_\_\_\_ plants.
- Mention synonym of: i) Kaolin, ii) Beeswax.
- Mention two examples of Prebiotics.
- Mention name of drug containing: i) Bassorin, ii) Vincristine
- Define and classify Dietary fibers.
- Mention families of: i) Agar, ii) Tragacanth
- Define Herbal cosmetics.
- Give any one identification test for Acacia OR Gelatin.

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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

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**Subject: -Human Anatomy & Physiology (20114)**

**Class: - F.Y.D.Pharm.**

**Maximum Marks: - 40**

**Date: - 30/3/2024**

**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.**

**(15 marks)**

- a. Describe Urine formation in detail. What is GFR?
- b. Enlist the organs of female Reproductive system and explain Menstrual Cycle.
- c. Give the Physiology of Liver with composition of bile.
- d. Summarize the functions of Cerebrum, Cerebellum, Hypothalamus, Medulla oblongata

**Q.2) Attempt any FIVE of the following.**

**(15 marks)**

- a. Draw a well labelled diagram of male Reproductive system
- b. Give the composition and Functions of Gastric Juice.
- c. Explain the various properties of skeletal muscles.
- d. How kidney maintains Blood pressure.
- e. Draw a well labelled diagram of L.S. of an Eye.
- f. What will be the effect of stimulation of Sympathetic and Parasympathetic stimulation on Eye, Respiratory track and heart?

**Q.3) Solve the following multiple choice questions.**

**(10 marks)**

- a) Define Digestion.
  - b) What is Parturition?
  - c) Name the hormone involved in water balance and electrolyte balance?
  - d) Define Myopia and Presbyopia
  - e) Name the First and seventh cranial nerve.
  - f) Give the types of muscles of the human body.
  - g) Name the protective coverings of the brain and spinal cord
  - h) Saliva contains -----enzyme.
  - i) Comment on any one abnormal constituent of urine.
  - j) Outer white fibrous layer of eye is called....  
1. Sclera 2. Cornea 3 Retina 4 Iris
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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

Subject: Social Pharmacy (20115)

Class-First Year D.Pharm

Date-01/04/2024

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**

- a) Enlist ongoing National Health Programmes in India. Explain National Iodine deficiency disorder control programme and mental health programme.
- b) Define Pharmacoeconomics. Enlist and elaborate types of pharmacoeconomics evaluation.
- c) Write in detail about Revised National Tuberculosis Control Programme.
- d) Write about the stakeholders involved in pharmacoeconomics.

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

- a) Enlist types of cost involved in pharmacoeconomics evaluation. Write formula for total cost.
- b) Write a note on: National vector disease control programme.
- c) What is the objective and functioning of national tobacco control programme.
- d) Enumerate any six programmes aimed at controlling communicable diseases.
- e) Give objective and functioning of: Mission Indradhanush
- f) Write role of pharmacist in health system.

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

- a) HMO stands for \_\_\_\_\_.
- b) The kalaazar elimination programme has following strategic components.
  - i) Case detection and treatment
  - ii) Diagnosis
  - iii) Intersectoral convergence
  - iv) All of the above
- c) The term pharmacoeconomics was coined by \_\_\_\_\_.
- d) The pharmacist can play an integral role as member of the health care team as \_\_\_\_\_.
  - i) Health service provider
  - ii) Health educator
  - iii) Both i) and ii)
  - iv) None of these
- e) Main objectives of health education include:
  - i) Informing the people
  - ii) Motivating the people
  - iii) Guiding the people
  - iv) All of the above
- f) Where is the headquarters of National AIDS Control Organization?
- g) Pharmacoeconomics focus on \_\_\_\_\_.
  - i) input cost
  - ii) provided healthcare system cost
  - iii) medical cost
  - iv) all of these
- h) IEC stands for \_\_\_\_\_.
- i) Direct cost = \_\_\_\_\_ + \_\_\_\_\_.
- j) The measurement unit for a CUA is
  - i) Dollars or monetary units
  - ii) Natural units (life years gained)
  - iii) QALY (quality adjusted life years)
  - iv) None of the above

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Pune District Education Association's  
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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

**Subject: Pharmacology (20221)**

**Class- Second Year D. Pharm**

**Date – 26/03/2024**

**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 antineoplastic agents.
- Give types, mechanism of action, physiological role, pathological role and clinical uses of insulin
- Classify antimicrobial agents.
- Write a detail note on oxytocin.

**Q. 02 Solve any five of the following.**

**Marks 15**

- Write a note on sulphonamides.
- Define diuretics and classify them on the basis of their mechanism of action.
- Classify autocoids. Give the role of histamine in the body.
- Define and classify 'oral hypoglycemic agents'.
- Give therapeutic uses of corticosteroids.
- Explain about 'tetracycline antibiotics'.

**Q. 03 Solve all of the following.**

**Marks 10**

- Define biologicals.
- Sumatriptan is a selective agonist of \_\_\_\_\_ receptor
- \_\_\_\_\_ is a self-limiting diuretics.
- \_\_\_\_\_ is known as cholecalciferol.
- Define hormones.
- Give synonym for serotonin.
- Write any two examples of biologicals.
- \_\_\_\_\_ are self-limiting substances.
- INH & PAS stands for.
- Which is a common adverse effect of amphotericin?

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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

**Subject: Community Pharmacy and Management (20222)**

**Class- Second Year D.Pharm**

**Max.Marks- 40**

**Date-27/03/2024**

**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 minor ailments. Describe the self-care advice by the pharmacist in stomach issues.
- b) What is systolic and diastolic blood pressure? Write procedure for use of sphygmomanometer.
- c) Define OTC medication. Discuss the need and role of pharmacist in OTC medication dispensing.
- d) Write patient counselling for tuberculosis patient.

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

**15 Marks**

- a) Define health. Write about lipid profile test in health screening services.
- b) Write patient counselling for COPD.
- c) Give the importance of health screening services at community pharmacy.
- d) Define patient counselling. Write four benefits of patient counselling.
- e) Write self-care advice for sore throat.
- f) Write a note on: PPI.

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

**10 Marks**

- a) What is the formula for calculation of BMI?
- b) Restricted salt intake is recommended in
  - i) Asthma
  - ii) High blood pressure
  - iii) Low blood pressure
  - iv) Diabetes
- c) Lipid profile checkup is suggested for individual suffering from?
  - i) Obesity
  - ii) Cardiovascular diseases
  - iii) Both i) and ii)
  - iv) Fever
- d) Early detection of following condition using health screening services saves patient's life -
  - i) Acne
  - ii) Arthritis
  - iii) Fever
  - iv) Cancer
- e) CDSCO stands for \_\_\_\_\_.
- f) An individual is said to be diabetic when the post prandial blood glucose level is \_\_\_\_\_ mg/dl
  - i) 50 mg/dl
  - ii) 200 mg/dl
  - iii) 70 mg/dl
  - iv) None of these
- g) PIL is \_\_\_\_\_
  - i) Pharmacy institute laboratory
  - ii) Patient information leaflet
  - iii) Person information license
  - iv) None of these
- h) Define self-medication.
- i) GERD stands for \_\_\_\_\_.
- j) Write any 2 barriers in patient counselling.

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Subject: Biochemistry & Clinical Pathology

Subject Code-20223

Class- Second Year D.Pharm

Max.Marks- 40

Time- 90 Min

Date- 28/03/2024

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- 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)**

- a) Give name of Co-enzymes of the following Vitamins:-
  - i) Riboflavin    ii) Pantothenic acid    iii) Folic acid    iv) Pyridoxine    v) Niacin
- b) Enlist the various functions of liver. What are routinely performed test for assessing the functions of the liver?
- c) Explain the Electron Transport Chain. Mention the site of ATP synthesis. Add a note on inhibitors & uncouplers of oxidative phosphorylation.
- d) State the dietary sources, recommended dietary requirements, coenzyme form, functions & deficiency diseases of vitamin B1.

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

- a) What is dehydration? Give its causes, symptoms & treatment.
- b) Explain the role of Vitamin A in vision.
- c) Explain functions of water & write about the water balance in human body.
- d) What are routinely performed test for assessing the functions of the kidney?
- e) Give the recommended dietary requirement, deficiency diseases & functions of Calcium.
- f) Enlist lipid profile tests & give its significance.

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

- a) The vitamin of which deficiency leads to Hemorrhage is-----
    - i) Vit.K    ii) Vit. B1    iii) Vit.C    iv) Vit.B3
  - b) What is the meaning of Clearance?
  - c) Draw structure of Niacin.
  - d) State the deficiency diseases related to Iron.
  - e) What is Glomerular filtration rate for an adult?
  - f) Define Minerals.
  - g) The deficiency disease of Vitamin B2 is ----
    - i) Pellagra    ii) Beri-beri    iii) Pernicious anemia    iv) Megaloblastic anemia
  - h) LFT are used in---
    - i) Diagnosis    ii) Treatment    iii) Both (i) & (ii)    iv) None of these
  - i) What is ORS?
  - j) Define oxidative phosphorylation.
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**PUNE DISTRICT EDUCATION ASSOCIATION'S**  
**Seth Govind Raghunath Sable College of Pharmacy (Polytechnic), Saswad, Pune**

**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

**Subject: Pharmacotherapeutics (20224)**

**Class:** - S.Y.D.Pharm.

**Maximum Marks:** - 40

**Date:** - 30/03/2024

**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) Define Tuberculosis. Give the etiopathogenesis, Clinical manifestations and Pharmacological and Non pharmacological treatment of Tuberculosis.
- b) What is Depression? Give the etiopathogenesis, Clinical manifestations and Pharmacological and Non pharmacological treatment of Depression
- c) Define Glaucoma. Give the etiopathogenesis, Clinical manifestations and Pharmacological and Non pharmacological treatment of Glaucoma.
- d) Give Diagnostic & screening tests, Pharmacological management and approved vaccines for Covid-19.

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

- a) Write a note PCOS
- b) Explain the types of Anxiety disorders.
- c) Discuss clinical manifestations and Pharmacological management of Pneumonia.
- d) What are opportunistic infections? Give its Pharmacological management.
- e) Write a note on Urinary Tract infections.
- f) Define UTIs and AIDS with its clinical manifestations.

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

- a) Name any two antibiotics used in bacterial conjunctivitis.
- b) PCOS is the prominent cause of ----
- c) ---- means inflammation of conjunctiva named as ----
- d) Acrophobias means a ----
- e) Give first line treatment for Depression.
- f) Syphilis is caused by ----
- g) RT-PCR Stands for ----
- h) Name any 2 antibiotics used in Syphilis.
- i) Name any two drugs used in hepatitis.
- j) Define anhedonia.

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**THIRD SESSIONAL THEORY EXAMINATION 2023-24**

**Subject: Hospital & Clinical Pharmacy (20225)**

**Class-** Second Year D.Pharm

**Max.Marks-** 40

**Date-** 01/04/2024

**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 any five haematological tests with its normal values and significance.
- b) Explain in detail steps involved in treatment of poisoning.
- c) What is medication error? Give its types with strategies for prevention of medication errors.
- d) Define poison. Classify poisons with suitable examples.

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

**15 Marks**

- a) What are LASA Drugs? Give importance to the listing of LASA Drugs.
- b) Enlist different tests performed for cardiac disorder, explain any two of them.
- c) Give the composition of Universal Antidote and what is dose for BAL Antidote.
- d) Write the mechanism of following drug interactions:  
i) Folic acid – Phenytoin, ii) Diuretics and antidiabetic agent, iii) Phenyl butazone and warfarin
- e) Enlist different tests performed for checking liver functioning and describe any two of them.
- f) Write in brief about Drug Food Interactions with example.

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

**10 Marks**

- a) The term is Tall man lettering, coined by the: i) ISMP, ii) FDA, iii) WHO, iv) USFDA.
- b) The timeline of reporting ADR takes---- calendar days: i) 07, ii) 05, iii) 14, iv) None of above
- c) Define Pharmacovigilance
- d) Mention the purpose of Urine analysis and Thyroid function test.
- e) Antidote use in iron poisoning is: i) BAL, ii) EDTA, iii) Desferrioxamine, iv) Atropine
- f) International drug monitoring done in collaboration with  
i) UMC, ii) WHO, iii) UMC & WHO, iv) None of above
- g) Give normal values of : i) Blood Sugar, ii) Blood Pressure
- h) Spirometry test is performed to assess the disease related to ----- organ.
- i) Physical examination of urine includes: i) Volume, ii) Color, ii) Odor, iv) All of above
- j) The information exchange between WHO and National Centre mainly through  
i) Google, ii) Vigimed, iii) Google & Vigimed, iv) None of above

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**Third Sessional Theory Examination 2023-24**

**Subject: Pharmacy Law and Ethics (20226)**

**Max. Marks: 40**

**Time: 90 Mins.**

**Instructions:** - 1) All questions are compulsory.

2) Black figures to the right indicate full marks.

**15 Marks**

- What is clinical trial ? Explain various phases of clinical trial.
- Discuss the objectives of DPCO act. How Retail Price of Drug is calculated?
- Write objective and steps of New drug Development Process.
- Define the term-
  - Ceiling price
  - Maximum retail Price
  - Trade mark
  - Patent
  - Intellectual property right

**15 Marks**

- Explain the BCS system of classification.
- Give general principles of law.
- Discuss documentation, licenses and renewal procedure in Hospital pharmacy
- Explain Branded drugs Vs Generic drugs.
- What is Emergency Use Authorization (EUA)? Write process of EUA.
- Give the objectives of Disaster Management Act 2005. Write the offences and penalties under this act.

**10 Marks**

- The term of patent for ordinary invention from the date of patent is:  
i) 7 years                      ii) 14 years                      iii) 5 years                      iv) 10 years
- The provisions of DPCO are implemented & enforced by-----  
i) DPPA                      ii) NPPA                      iii) MAPE                      iv) None of the above
- In which of the year "Indian Patent Act" came into existence?  
i) 1979                      ii) 1970                      iii) 1984                      iv) 1974
- Enlist the principles of Bioethics.
- The National Disaster Management Authority (NDMA) is headed by-----  
i) P.M.of India    ii) President of India    iii) Governor of States    iv) Chief Minister of States
- What is Good regulatory practices?
- Give the full form of NLEM.
- Give one function of the National Institute of Disaster management.
- Define Bioethics.
- ICMR stands for-----