

DO NOT WRITE ANYTHINGS ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHINGS WOULD BE TREATED AS MALPRACTICE

HOSPITAL & CLINICAL PHARMACY– II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. **A) Define the following terms** [2X5=10]
i) Drug dependence ii) Idiosyncrasy iii) Universal Antidote iv) Drug Interaction v) Bioequivalence
- B) Write the normal value of the following** [1X5=5]
i) Fasting Blood Sugar Level
ii) BTCT
iii) Cholesterol
iv) ESR
v) Haemoglobin level in women
- C) Write the full form of the following** [1X5=5]
I) HEPA II) DTAB III) CUDD IV) EOQ V) MRI
2. What is PTC? Write the function of PTC & describe its role in drug safety & adverse drug reaction. [2+3+10=15]
3. Write short notes on the following [5X3=15]
 - i) Unit Dose Dispensing
 - ii) Drug food Interaction
 - iii) Teratogenicity
4. a) Describe the objectives & functions of Hospital Pharmacy Services [8]
b) Write about the requirements & abilities of Hospital Pharmacist. [7]
5. Discuss the pathophysiology & clinical manifestation of (Any two) [7.5X2]
 - a) Peptic Ulcer
 - b) Epilepsy
 - c) Hepatitis
6. a) Explain the drug distribution systems in Hospitals for in-patients [10]
b) Write their Advantages & Disadvantages [5]
7. Write notes on:
 - i) Factors causing Noncompliance [7]
 - ii) Applications of computers in Hospital Pharmacy [8]

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DRUG STORE & BUSINESS MANAGEMENT– II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. Define the following [2X10=20]
 - i) Buffer Stock
 - ii) FIFO
 - iii) Trade Discount
 - iv) Overdraft
 - v) Trial Balance
 - vi) Advertising
 - vii) Book Keeping
 - viii) Fixed Capital
 - ix) Debenture
 - x) Firm

2. What is Cash Book? Describe all types of Cash Book. How it is different from journal, explain. [2+6+7=15]

3. Write short notes on [5X3=15]
 - i) Balance Sheet
 - ii) Types of Banks
 - iii) Market Research

4. Define the term Wholesaler. Explain the general functions & services rendered by the Wholesaler [2+7+6=15]

5. What is Inventory Control, Write its objectives & function. Describe about EOQ & ABC analysis. [1+4+10=15]

6. What do you mean by commerce? Difference between trade & commerce. Explain the different component & Function of Commerce. [2+5+8=15]

7. Journalize the following transactions [15]
 - a. Bought goods for cash Rs 600/-
 - b. Paid wages Rs 80/-
 - c. Sold goods Vadva Ram Rs 2000/-
 - d. Paid Manohar Rs 3000/-
 - e. Sold goods to Ramesh Rs 3400/-
 - f. Received from Chiranjeevi Rs 1540/- & allowed him discount Rs 60/-
 - g. Paid Manohar Rs 3000/-
 - h. Sold goods to Chiranjeevi Rs 1600/-
 - i. Harish started business with cash Rs 10000/-
 - j. Bought goods for Manohar Rs 5000/-

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PHARMACEUTICAL CHEMISTRY – II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. A) Write the structure of the heterocyclic ring with numbering & give suitable drug example [1x10]
 - i) Piperazine ii) Quinoline iii) Piperidine iv) Pyrazole v) Imidazole
 - vi) Pyrimidine vii) Pyridine viii) Xanthine ix) Azepine x) Pteridine
 B) Write the chemical structure & use of the following medicinal agents [2x5]
 - i) Halothane ii) Lignocaine iii) Isoprenaline iv) Furosemide v) Chlorocresol

2. Write short notes on any three [5x3]
 - i) Diagnostic agents ii) Anticoagulants iii) Antineoplastic agents iv) Hypoglycaemic agents

3. a) What do you mean by Tuberculosis? Classify Anti tubercular Drugs. Write the structure, nomenclature & uses of the following [2+4+6]
 - i) Isoniazid ii) Ethambutol iii) Pyrazinamide
 b) Write short notes on DOTS [3]

4. a) Define Antibiotics. Classify them with suitable example. [2+4]
 - b) Write the structure, nomenclature & uses of the following [3x3]
 - i) Benzyl Penicillin ii) Ampicillin iii) Phenoxy Methyl Penicillin

5. a) Define and Classify Diuretics. [2+4]
 - b) Write the structure, Nomenclature & uses of [3x3]
 - i) Furosemide ii) Hydrochlorothiazide iii) Mannitol

6. Write short notes on any three: [5x3]
 - i) Antihistaminic Agents ii) Antimalarial agents iii) Analeptics iv) NSAIDS

7. Write the structure, Nomenclature & uses of any five of the followings: [5x3]
 - a) Aspirin
 - b) Diazepam
 - c) Chlorpropamide
 - d) Thyroxine
 - e) Imipramine
 - f) Adrenaline

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PHARMACEUTICAL JURISPRUDENCE– II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. A) Define the following (Any Seven) [2X7=14]
 - i) Spurious drug
 - ii) Cosmetics
 - iii) Registered Pharmacist
 - iv) Narcotic Drugs
 - v) Advertisements
 - vi) Schedule P
 - vii) Magic Remedy
 - viii) Schedule X
- B) Fill in the blanks [1X6=6]
 - i) A drug is deemed to be _____ if it is not labelled in the prescribed manner.
 - ii)The MTP act provides that pregnancies of women may be terminated by _____
 - iii)DTAB stands for _____
 - iv)The Central Drug Laboratory was established at _____.
 - v) PCI is reconstituted every _____ year.
 - vi) Under Section _____ of the Drugs & Cosmetic Act, drug Inspector may be appointed.
2. Give the qualification and duties of [8+7=15]
 - i) Drug Inspectors
 - ii) Government Analyst
3. Write notes on [7.5X2=15]
 - i) Poison Act
 - ii) MTP Act
4. Discuss the constitution & function pf Pharmacy Council of India. Write the penalty for falsely claiming to be registered Pharmacist. [8+4+3=15]
5. Define ethics. Discuss the ethics that a pharmacist should observe in relation to his job & trade [1+7+7=15]
6. Answer the following [Any Two] [7.5X2=15]
 - i) Write the offences & punishment laid down on contravention of NDPS act
 - ii) Write notes on Bonded laboratory.
 - iii)Write the constitution &function of DTAB.
7. Answer the followings
 - i) What kind of advertisement are prohibited under drug & magic remedies (Objectionable advertisement Act) [10]
 - ii)Write notes on retail price calculation [5]

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Subject : PHARMACEUTICS – II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. Write short notes on any five; [2x5]
 - A) i) Dentifrices ii) Cachets iii) Elixir iv) Douches v) Eutectic Mixtures
vi) Flocculating agents
 - B) Fill in the blanks with suitable words [1x10]
 - i) The strong purgatives should be avoided in women during -----
 - ii) Rectal suppository are generally made from -----
 - iii) Emulsifying agents reduce ----- between two phases
 - iv) Injection should be ----- Isotonic & free from foreign particle
 - v) Milk is an example of ----- type of emulsion .
 - vi) A Liquified gas is used in the preparation of aerosol named -----
 - vii) Haemodialysis is done to remove ----- from the blood
 - viii) In nonflocculated suspension the particle exist as -----
 - ix) The maximum dose of potent drug is -----
 - x) Dusting powder is dispensed in----- Container.
2. a) Define the term prescription. Describe in brief the various parts of prescription [2+10]
b) Write notes on WAFER capsule [3]
3. a) What is an ointment base? Clarify & Explain details about different types of ointment base [2+3+5]
b) Explain physical incompatibility with suitable examples [5]
4. a) Define the term Emulsion, What are the different types of emulsion ? Explain about various identification test for an emulsion. [2+1+7]
b) Write short notes on “Creaming” [5]
5. Explain the term posology. Discuss various factors that affect the dose of a drug. [2+9+4]
Write the formula for Dilling
6. Define the term parenteral product. [2+13]
Discuss in brief the various test which are required to be done for the evaluation of parenteral preparation
7. Write short notes on any three [5x3]
 - a) Alkaloid incompatibility
 - b) Facial Cosmetics
 - c) Dusting Powder
 - d) Suspension
 - e) Eye Drop

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PHARMACOLOGY & TOXICOLOGY – II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. A) Define the following terms [2x6=12]
 - i) Local Anaesthetics
 - ii) Antibiotics
 - iii) Inunction
 - iv) Pharmacodynamics
 - v) Absorption
 - vi) Tolerance

- B) Fill in the blanks [2x4=8]
 - i) Inverse agonist has _____ but _____ intrinsic activity
 - ii) CNS effect of Neostigmine is _____ & Physostigmine is _____
 - iii) Albendazole is a _____ drug & Dapsone is a _____ drug.
 - iv) Adrenal Cortex secretes hormones namely _____ & _____

2. Explain different mechanism of drug action. Describe the various factors modifying drug action [5+10=15]
3. Classify Antiadrenergic Drugs. Write the ADME, pharmacological Action, adverse effect & uses of Propranolol [3+2+6+2+2=15]
4. Classify antitubercular drug. Discuss in detail about the first line antitubercular drugs. Add a note on short course therapy for tuberculosis [3+10+2=15]
5. Differentiate between opioid analgesics & NSAIDs. Write the mechanism of action, pharmacological action, adverse effect & uses of Aspirin. [3+2+6+2+2=15]
6. What is CHF? Explain the mechanism of action, pharmacological action, adverse effect and uses of Digitalis [2+3+6+2+2=15]
7. Write short notes on any three: [5x3=15]
 - a) Proton Pump Inhibitors
 - b) Biguanides.
 - c) Treatment of Cough
 - d) Loop Diuretics

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DRUG STORE & BUSINESS MANAGEMENT

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. **Define the followings.** [2x10]
(a) Petty cash book (b) Trial Balance (c) GAAP (d) Overdraft (e) Scrap
(f) Safety stock (g) Share (h) LIFO (i) Buffer Stock (j) Ledger
2. What do you mean by pharmaceutical management? What are the levels of management?
Write a note on functions of management. [2+4+9]
3. Describe Triple Column cash book and balance sheet [7+8]
4. (a) Define commerce. What are the components and functions of commerce? [2+5=7]
(b) Describe in brief about accounting Conventions. [8]
5. Discuss the various legal requirements to be fulfilled to open a retail drug store. [15]
6. Journalize the following transaction & post them into the ledger. [15]
 - (i) On May 01, 2022 Rajesh started a business with Rs. 50,000/- and other transactions for the Months are.
 - (ii) Purchased Goods for Cash Rs. 9,000/-.
 - (iii) Purchased Furniture for Cash Rs. 7,000/-.
 - (iv) Bought medicine from M/s Tarini Enterprisers on credit Rs. 15,000/-.
 - (v) Paid House Rent Rs. 1,500/-
 - (vi) Cash deposited in bank Rs. 5,000/-.
 - (vii) Paid Salaries Expense Rs. 6,000/-.
 - (viii) Paid Telephone Bill Rs. 500/-.
 - (ix) Goods sold for cash Rs. 18,000/-.
7. Explain the term sales promotion. Discuss in detail about window display. Describe the different methods of sale promotion [2+5+8]

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HOSPITAL AND CLINICAL PHARMACY

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. A) Define the following terms: [5x2]
 - (i) Anaphylaxis
 - (ii) Satellite pharmacy
 - (iii) Bioavailability
 - (iv) Teratogenicity
 - (v) Clinical pharmacy
- B) Write the full form of following: [10x1]

(i) SGOT	(ii) LVP	(iii) OTC	(iv) EDTA	(v) BAL
(vi) PHC	(vii) DCGI	(viii) PTC	(ix) COPD	(x) LDL
2. (a) Describe the facilities and requirements for manufacturing of sterile products. [8]
 (b) Discuss the layout of sterile product area. [7]
3. Define Hospital & classify it. Describe in details the function of district Headquarter Hospital & Modern Hospital [2+3+10]
4. Write notes on (Any three): [5x3]
 - (a) Patient Counselling
 - (b) Role of Pharmacist in Health Care System
 - (c) Drug Food interaction.
 - (d) Bed side pharmacy
5. Write the pathophysiology & manifestation (Any Two) [7.5x2]
 - (a) Cerebral Malaria
 - (b) Pulmonary Tuberculosis
 - (c) NIDDM
6. Define & classify ADR. Explain in detail about predictable Adverse Drug Reaction [2+3+10]
7. A) Enumerate the Drug Distribution System for Out Patients. [10]
 B) Write the location & lay out of OPD Dispensing along with figure. [5]

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PHARMACEUTICAL JURISPRUDENCE**Full Mark -80****Time -3 hrs***(Answer any five questions including question No. 1)*

1. **Define the following.** [2x10=20]
 - (a) Registered Medical Practitioner.
 - (b) Illicit traffic.
 - (c) Ceiling Price
 - (d) Government analyst.
 - (e) Label.
 - (f) Poppy Straw
 - (g) Schedule-H.
 - (h) Loan License
 - (i) DPCO
 - (j) The Central Register.
2. Write short note on (Any three). [5x3]
 - (a) State Pharmacy Council.
 - (b) Central Drugs Laboratory.
 - (c) DCC
 - (d) Adulterated Drug
3. Discuss in detail about code of pharmaceutical ethics with special reference to Pharmacist in relation to his job and trade. [15]
4. Write notes on the following. (Any Three) [5X3]
 - (a) Wholesalers
 - (b) Bonded Laboratory.
 - (c) MTP Act
 - (d) Toilet preparation
5. What are the objectives of Pharmacy act? Explain the constitution and functions of PCI in detail? [2+8+5]
6. Write notes on the following. (Any Three) [5X3]
 - (a) Repacking Licence
 - (b) Retail Price Calculation
 - (c) Magic Remedies
 - (d) Drug Price Control order 1995
7. What are the objectives of NDPS Act 1985? What are the offences & penalties imposed in NDPS Act. [5+10]

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PHARMACEUTICAL CHEMISTRY – II (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. (A) Write the Structure of the heterocyclic ring with numbering and give suitable example: [1x10]
 - a) Furan b) Isoniazid c) Pyrazine d) Indole e) Pyrrolidine
 - f) Haloperidol g) Pyridine h) Chloroquine i) Acridine j) Aziridine
- (B) Write the Chemical structure and use of following medicinal agents: [2x5]
 - a) Propranolol b) PAS c) Procaine d) Prednisolone e) Phenformin
2. (A) Define analgesics, antipyretics & anti-inflammatory agents [3x2]

(B) Write the structure, chemical name & uses of the following drugs [3x3]

 - a) Paracetamol b) Aspirin c) Pethidine
3. Write short note on: (Any three) [5x3]
 - a) Anthelmintics b) General Anaesthesia c) Antimalarial Agents d) Oral Hypoglycaemic Agents
4. (A) Define antibiotics, Classify Sulphonamide on chemical basis with suitable examples. [1+2]

(B) Write the structure, nomenclature, popular brand name and use of [4x3]

 - a) Sulfacetamide b) Sulphadiazine c) Sulphaguanidine
5. (A) What are tranquilizers? Where are they used? Classify them with suitable examples. [2+1+4]

(B) Give a brief account of different phenothiazine class of tranquilizers. [8]
6. (A) Define sympathomimetic and sympatholytic drugs. Write their uses. [4+2]

(B) Classify adrenergic drugs chemically with examples. [4]

(C) Write the structure, chemical name, uses, pharmaceutical formulations and popular brand name of Isoprenaline. [5]
7. (A) Classify diuretics on chemical basis with suitable examples. [4]

(B) What are high ceiling diuretics? Write the structure of one high ceiling diuretic. [2+1]

(C) Write the physical and chemical properties, stability and storage and uses of Furosemide and Urea [4x2]

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PHARMACOLOGY AND TOXICOLOGY (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

1. **Define the following terms:** [2x10]
 - i) Bioavailability
 - ii) Biological lag
 - iii) Topical route
 - iv) Tachyphylaxis
 - v) Idiosyncrasy
 - vi) Synergism
 - vii) Pharmacokinetics
 - viii) Pharmacodynamics
 - ix) Antagonist
 - x) Metabolism
2. Define Parasympatholytic. Classify them with suitable example, write the pharmacological actions & uses of Atropine. [3+4+8]
3. What is cancer? Classify anti-neoplastic drug with suitable example. Describe the mechanism of action, Pharmacological action and Therapeutic uses of Alkylating agent. [1+4+10]
4. (A) Classify different route of drug admiration. Write a note on oral & parenteral route with their advantages & Disadvantages [4+6]
(B) Short note on Newer Drug Delivery System (NDDS) [5]
5. Define Sedative & hypnotics and its classification with example. Describe in detail about mechanism of action, Pharmacological action, adverse effect and uses of Barbiturates. [2+3+10]
6. Define Hypertension & classify Anti-Hypertensive drugs with example. Describe in detail about mechanism action of calcium channel blocker. [3+4+8]
7. **Write short notes on any three :** [3x5]
 - i) Peptic Ulcer
 - ii) Antitussive & Expectorants
 - iii) Opioid Analgesics
 - iv) Chloroquine

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PHARMACEUTICS – II (Theory)**Full Mark -80****Time -3 hrs***(Answer any five questions including question No. 1)***1. Fill in the blanks with suitable words**

[1x10]

- (A) i) Zeta potential is present in _____ suspension.
ii) Cocoa butter is not suitable base for _____ suppositories.
iii) Simple syrup is solution of sucrose in water having sucrose concentration _____.
iv) Contact Lens is usually made from _____.
v) Emulsifying agents reduce _____ between two phases.
vi) _____ is commonly used as antiperspirant.
vii) Ophthalmic preparation should be isotonic with _____.
viii) Cachets are also known as _____.
ix) The drugs are more rapidly absorbed from the _____ stomach.
x) Water for injection should be free from _____.

(B) Define the following (Any five)

[2x5]

- i) Lotion ii) Inscription iii) Paste iv) Dusting Power v) Suspension vi) Pyrogen
2. What is Suppository, Classify different bases of suppository. Describe briefly each base. [2+3+10]
3. Define Prescription. Describe the parts of a prescription with a neat and clean diagram [2+10+3]
4. Define Emulsion. Enlist the different types of Emulsion. Discuss in brief the various methods used in preparation of Emulsion. [2+1+12]
5. What is an ointment base? Classify them. Explain about different types of ointment bases. [2+3+10]
6. What is shampoo? Write the properties of a good shampoo. What are the various types of additives used in the preparation of shampoo? [1+2+12]
7. Differentiate between (Any three) [5+5+5]
- i) Physical Incompatibility & Chemical Incompatibility
ii) Flocculated Suspension & Non-flocculated Suspension.
iii) Paste and Jellies.
iv) Simple Powder & Compound Powder
