



ARKAJAIN
University
Jharkhand

2nd Year Part-II End Term Examination: 2021-22.

Subject : **Pharmaceutics II** **Roll No:**

Course : **D. Pharmacy**

Full Marks : **80** **Time** : **3 Hours.**

PART - C

Answer any TEN out of ELEVEN

[10x3=30]

1. Write Ideal Properties of a Suspension
2. Difference between flocculated and non-flocculated suspension.
3. What is the difference between O/W and W/O emulsion?
4. Write difference between paste and ointment.
5. Write advantage and disadvantage of powder.
6. Write short note on cachets.
7. What is the difference between linctus and elixir?
8. Write short note on gargle.
9. What is superscription, inscription and subscription?
10. Write any three factor which influence dose in prescription.
11. Write any three sources of error in writing a prescription?

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PART - A

Multiple Choice Questions

[20x1=20]

1. The abbreviation of Latin word Rx is
a) You take b) To make
c) To sold d) To use
2. The symbol Rx is written in which part of the prescription?
a) Inscription b) Superscription
c) Signature d) Subscription
3. 1 litre is
a) 10 ml b) 1000ml
c) 100ml d) 0.01ml
4. Density is
a) Weight/ volume b) Weight*volume
c) Volume/ weight d) None of the above

5. What do you write on the prescription when the dosage has to be taken after food?
- A.c.
 - P.c.
 - P.r.n.
 - Sig.
6. What do you write on the prescription when the dosage form is tablet?
- Caps.
 - Tab.
 - Aq.
 - H.
7. The prescription is an order written by a registered medical practitioner to.....
- Patient
 - Pharmacist
 - Dentist
 - Nurse
8. In which language the abbreviations in the prescription writing are very common especially in dosage Instruction
- Latin
 - Greek
 - French
 - German
9. Posology is a branch of pharmacy which deals with,
- Study of dosage forms
 - Study of doses
 - Study of drug interaction
 - All of the above
10. Throat paints are liquid preparations.
- Viscous
 - Non viscous
 - Solid
 - Gas
11. Elixirs are
- Hydro alcoholic liquid
 - Aqueous
 - Viscous
 - Semi solids
12. Is not a type of syrup?
- Simple syrup
 - Medicated syrup
 - Flavored syrup
 - Mixed syrup
13. Liniments must not be applied on theskin
- Swelled
 - Broken
 - Painful
 - Normal
14. Powders consist of more than one ingredient is known as
- Simple powders
 - Compound powders
 - Both a and b
 - None of the above
15. An emulsion consists of
- One liquid and one solid
 - One liquid and one gas
 - Two liquids
 - Two solids

16. Which of the following factor can affect the stability of suspension?
- Small particle size
 - Increasing the viscosity
 - Temperature
 - All of the above
17. Which of the following is a biphasic liquid dosage form?
- Emulsion
 - Suspension
 - Both a and b
 - None of the above
18. In oral medicated jellies methyl paraben is used as
- Preservatives
 - Gelling agent
 - PH modifier
 - Sweetening agent
19. Which of the following monophasic dosage form is not used for external application?
- Lotion
 - Syrup
 - Liniment
 - All of the above
20. Creaming in emulsion is
- Reversible
 - Irreversible
 - Difficult to predict
 - None of the above

PART - B

Answer any SIX out of SEVEN

[6x5=30]

- Classify powders. Briefly discuss mixing of powder.
- Write briefly methods of preparation of syrup.
- Write any two methods for ointment preparation.
- Write briefly instability of emulsion.
- What is a medical prescription? Discuss in brief about various parts of a prescription?
- Briefly write identification test for emulsion
- Classify monophasic liquid dosage form. Write short note on Douches.



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Subject : Pharmaceutical Chemistry II

Roll No:

Course : D. Pharmacy

Full Marks : 80

Time : 3 Hours.

7. Write the Chemical name, Structure and uses of Thyroxine.
8. Write the Pharmaceutical Formulation of Brand name of Betamethasone, Cortisone, Hydrocortisone, and Prednisolone.
9. Define Analgesic. Write about properties, Uses and Pharmaceutical Formulation of Morphine and Codeine.
10. Write the chemistry of Insulin
11. Define Cardiovascular drug. Write the market formulation of Ethylnitrite, Glyceryl trinitrate, Alpha methyl dopa, Guanethidine, Clofibrate, Quinidine.

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PART - A

Multiple Choice Questions

[20x1=20]

1. Which drug is Beta blocker?
a) Propranolol c) Both
b) Metoprolol d) Only A
2. Histamin is affected by?
a) Air c) Both
b) Light d) None
3. Morphine is which standard of analgesic?
a) Silver c) Gold
b) Bronze d) All of the above
4. Anti-inflammatory drug used to treat inflammation caused by?
a) Prostaglandins c) Histamine
b) Bradykinin d) Dopamine
5. Methimazole is used to treat which disease?
a) Grave's disease c) Hypothyroidism
b) Propylthiouracil d) All of the above

6. Theophylline is derivative of which alkaloid?
 a) Quinine c) Xanthine
 b) Indole d) Nicotine
7. Chronic Tension type headache is treated by which drug?
 a) Amitriptyline c) Nortriptyline
 b) Imipramine d) Phenelzine
8. Which is inhalation anesthesia?
 a) Halothane c) Cyclopropane
 b) Diethyl ether d) Methohexital Sodium
9. Phenytoin is used to treat?
 a) Epilepsy c) Nervous
 b) Tension states d) All
10. Pharmaceutical Formulation of Triperidol is?
 a) Liquid c) Elixer
 b) Injection d) Tablet
11. Primaquine is used to treat malaria caused by?
 a) P. ovale c) Both
 b) P. vivax d) None
12. Hamycin is used to treat?
 a) Vaginal Infection c) Inflammation of vagina
 b) Yeast infection d) All
13. Cephalosporine is which type of antibiotic?
 a) Synthetic c) Semi-synthetic
 b) Natural d) All
14. Isoniazid is which type of injection?
 a) Intramuscular c) Intravenous
 b) Subcutaneous d) All
15. What is the brand name of Solapsone?
 a) Sulphetrone c) Dapsone
 b) Fazim d) Clofaz
16. Atropine obtained from which plant?
 a) Plantago ovate c) Terminalia belerica
 b) Atropa belladonna d) Digitalis purpurea
17. Homatropine inhibiting acetylcholine on which receptor
 a) Nicotinic receptor c) Thermoreceptor
 b) G-protein receptor d) Muscarinic receptor

18. Which type of drug is used to treat cardiac oedema?
 a) Cholinergic drug c) Anesthetic drug
 b) Diuretic Drugs d) Anti-inflammatory drugs
19. Alpha Methyl dopa effect on which nervous system?
 a) CNS c) PNS
 b) None of them d) Both
20. Which drug is used for suppressing gag reflex?
 a) Benzocaine c) Procaine
 b) Lignocaine d) Prilocaine

PART - B

Answer any SIX out of SEVEN

[6x5=30]

- Write down the Chemical name, Chemical Structure, Uses, Market formulation and Brand name of Lignocaine and Procaine.
- Write down about Chemical Name, Uses, and market formulation of Clofibrate, Metformin, Hyoscine and Heparin.
- Write down the Chemical name, Properties, Uses, Pharmaceutical formulation and Brand name of Sulfbromophthalein Sodium and Indigotindisulfonate (Indigo Carmine).
- Write down the chemistry of Chlorpropamide.
- Define and classify antimalarial drug. Discuss the chemistry of Chloroquine.
- Define TB and Anti Tubular Drugs. Write the chemistry of Isoniazid.
- Define Diuretics. Write about Furosemide.

PART - C

Answer any TEN out of ELEVEN

[10x3=30]

- Define Antileprotic drug. Write the uses of Clofazimine and Solapsone.
- Discuss about Metronidazole.
- Write chemical name, properties and uses of Streptomycin and Rifampicin.
- Write the Chemistry of Udecylenic acid.
- Discuss Hypnotics and write the uses of Butobarbitone, Nitrazepam and Paraldehyde.
- Write the Chemistry of Cisplatin.



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2nd Year Part-II End Term Examination: 2021-22.

Subject : Drug Store and Business Management **Roll No:**
Course : D. Pharmacy
Full Marks : 80 **Time : 3 Hours.**

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PART - A

Multiple Choice Questions

[20x1=20]

1. Advantages of mail order business
 - a) It is very useful for those customers who live in remote areas of the country.
 - b) Support for finance from various nationalized & Co - operative banks in the form of soft loans
 - c) None of the above
 - d) Less competition
2. Advantages of partnership type of organization
 - a) The formation of a partnership firm is a simple procedure
 - b) The partnership firm can raise a larger amount of finance than a sole trader
 - c) Firm has longer existence as it is not dependent on any one person
 - d) All of the above
3. Factors affecting site of selection of drug store
 - a) Business locality
 - b) Flow of traffic
 - c) Locality
 - d) All of the Above
4. Joint stock company is governed by
 - a) Industry Act 1951
 - b) Company Act 1956
 - c) Drug and Cosmetic Act 1945
 - d) All of the Above

Answer any TEN out of ELEVEN

[10x3=30]

1. What are the advantages of perpetual inventory system?
2. Write the salient features of co-operative society business
3. Write a short note on Commerce.
4. Write a short note on Double entry Book-keeping System.
5. What are the main objective of budgetary control.
6. What are the advantages of I-O ratio analysis? →
7. Write a short note about Accounting Conventions.
8. What is the difference between 'Book-Keeping' and 'Accountancy'?
9. What are the main function of exchange bank.
10. What is the significant of a selection?
11. Write in brief about Wholesaler.

PART - C

2021			
August	Mr. Shiv Kumar started his business with a capital		1000000.00
1			
1	Brought furniture for cash from M/s Modern Furniture		25000.00
2	Purchased goods for cash		35000.00
3	Purchased goods from Neeraj on credit		30000.00
5	Sold goods to Hans Raj on credit		18000.00
6	Goods sold		15600.00
8	Cash sales to Din Dyal		83000.00
9	Goods sold for cash		24700.00
11	Cash paid to Jeevan		6200.00
13	Paid trade expenses		125.00
14	Paid advertisement expenses		12400.00
15	Received interest from Mohit		750.00
18	Deposited cash into bank		21000.00
21	Paid Rent		6450.00
23	Paid insurance premium		7650.00
24	Withdrawal of cash for personal expenses by Shiv Kumar		12000.00
26	Paid to meet Misc. expenses		2250.00
29	Investment of cash in business by Shiv Kumar		36000.00
31	Paid salary to staff		2400.00

5. If a minor chooses to become a partner on attaining the age of majority he will be liable for the debts of the firm from the date of his
- Attaining majority
 - Choice to become partner of the firm.
 - Admission to the benefit of partnership.
 - Mail order business is
- Wholesale trade
 - Retail trade
 - Direct selling trade
 - Retail trade by post
7. Disadvantages of Joint Hindu family business
- The business is usually run on a small scale. The benefits of Large-scale business cannot be enjoyed as this may raise the cost of business.
 - Karta has limited authority to run the business. The initiative and sincerity of young members of the family has no place.
8. The liability for business debts is unlimited.
- There are no checks and controls on the sole proprietor.
 - Time
 - Place
 - Risk
 - Spoilage
9. Itinerant retailer is
- Hawkers and peddlers
 - Street traders
 - Market traders.
 - All of the Above
10. Who is not functional middleman?
- Broker
 - Auctioneer
 - Del credener agent
 - Retailer
11. A drug store is called an ideal drug store if its inventory is
- In excess
 - Inadequate
 - Meager
 - At level between excessive and inadequate
12. Window display creates a _____ of the retail pharmacy
- Bad impression
 - Good impression
 - Does not affect
 - Not related to each other
13. In ABC analysis, the inventories are categories according to its
- Consumption
 - Storage
 - Date of expiry
 - None of these
14. The transaction which are not capable of being recorded in terms of money are not entered in account books. The concept applied in this case is
- Cost
 - Money measurement
 - Accounting period
 - Going concern
15. The concept that business enterprise will not be sold or liquidated in the near future is known as
- Accounting period
 - Going concern
 - Cost
 - Money measurement
16. EOQ stands for
- Equal Order Quantity
 - Economic Order Quantity
 - Equal Order Quality
 - Economic Order Quality
17. The expense may be matched with revenues whenever it is reasonable and practicable to do so. Which concept is applicable?
- Matching
 - Going concern
 - Revenue realization
 - Money measurement
18. The accounting transactions are generally made on the basis of invoices vouchers and receipts. State the concept which is applicable here
- Verifiable objective evidence
 - Entity
 - Accrual
 - Revenue realization
19. In a drug store, the expiry dated drug formulation are called
- Scrap items
 - Surplus items
 - Obsolete items
 - Dormant materials.
20. Revenue is generally recognized at the point of sale. Which concept is applied in this case?
- Matching
 - Going concern
 - Revenue realization
 - Money measurement

PART - B

Answer any SIX out of SEVEN

[6x5=30]

- Explain the term Business. What are the various types of Business Organisation? Discuss in details about Partnership Business.
- What do you know about 'Market research'? Discuss the various methods of market research. What are the advantages of market research?
- What is 'Codification'? Discuss the different methods of codification of items in a drug store. Write the advantages of codification.
- Explain the term Inventory Control. What are their functions? Write the main differences between A, B, C types of inventories.
- Define selection. What steps are involved in selection of employee?
- Define 'Banks' and explain their different types.
- Enter the following transactions in the general journal of M/s Rachna Medical Hall for the month of August 2021:-



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2nd Year Part-II End Term Examination: 2021-22.

Subject : Hospital and clinical pharmacy **Roll No:**

Course : D. Pharmacy

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PART - A

Multiple Choice Questions

[20x1=20]

1. How many types of Tuberculosis are found,
a) Three type
b) Two type
c) Four type
d) None of these
2. What is the meaning of "it is",
a) Destruction
b) Restriction
c) Infection
d) Inflammation
3. Causative agent of Hepatitis,
a) M. Tuberculosis
b) M. leprae
c) H. pylori
d) Fasciola hepatica
4. ----- level in blood is responsible for diabetes,
a) RBC
b) Insulin
c) WBC
d) Hemoglobin
5. All are permanent methods of family planning except,
a) Vasectomy
b) Laparoscopy
c) Contraceptives
d) Tubectomy
6. The most abused opioid drug is,
a) Codeine
b) Morphine
c) Ppaverine
d) Heroin

PART - B

[6x5=30]

Answer any SIX out of SEVEN

1. What is PTC, Explain about its composition and various role
2. What is Tuberculosis discuss about its management
3. What is peptic ulcer, discuss the various factors & explain about the management of peptic ulcer
4. Discuss about Hospital formulary
5. What is Drug abuse, Describe about Alcohol poisoning
6. Write about the management of Hypertension
7. Describe various stages of Rheumatoid arthritis

PART - C

[10x3=30]

Answer any TEN out of ELEVEN

1. Write shot notes on Diabetes
2. Drug distribution system
3. Hepatitis management
4. Hospital formulary
5. What is Drug Interaction
6. Briefly describe about Drug-Drug Interaction
7. What is sterile manufacturing
8. Discuss about the various types of adverse drug reaction
9. Explain about the Drug-Food interaction
10. Briefly describe about the Outpatient department
11. Write notes on Barbiturates poisoning

7. Which organ is responsible for the peptic ulcer,
a) Liver
b) Stomach
c) Heart
d) Kidney
8. Surgical dressing are sterilized by -----,
a) Moist heat sterilization
b) Drying
c) Dry heat sterilization
d) Autoclave
9. Which one is the antidotes for Alcohol poisoning,
a) Albendazole
b) Mebendazole
c) Tinidazole
d) Disulfiram
10. How many numbers of physician are present in PTC,
a) 2
b) 3
c) 5
d) 7
11. Which Antibiotics is used to treat the Parkinson's disease,
a) Amantadine
b) Aceclofenac
c) Diclofenac
d) Barbiturates
12. Propanolol is a -----
a) Anesthetics
b) Cox Inhibitor
c) Proton pump inhibitor
d) None of these
13. Which one is responsible for the treatment of the morphine poisoning,
a) Penicillamine
b) Nalaxon
c) EDTA
d) Vitamin -K
14. The normal blood pressure of healthy person,
a) 150/80 mm of Hg
b) 120/80 mm of Hg
c) 140/80 mms of Hg
d) None of these
15. Which one is a Diuretics,
a) Paracetamol
b) Ibuprofen
c) Pheniramine
d) Furosemide
16. Which one is the shape of mycobacterium tuberculosis,
a) Tinny rod shape
b) Oval shape
c) Round shape
d) Flat shape
17. Which one is the meaning of Bactericidal,
a) To restrict growth
b) Enhance the growth
c) To kill bacteria
d) Nutrition
18. Which one is a Biguanides,
a) Glipizide
b) Meglitinide
c) Gibenclamide
d) Metformin Hydrochloride
19. The objectives of PTC is,
a) Educational
b) Advisory
c) Adverse drug monitoring
d) All of the above
20. Surgical gauze is checked for the following standard,
a) Yarn number
b) Thread per stated length
c) Thread per stated length
d) All



2nd Year Part-II End Term Examination: 2021-22.

Subject : Pharmaceutical Jurisprudence

Roll No:

Course : D. Pharmacy

Full Marks : 80

Time : 3 Hours.

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PART - A

Multiple Choice Questions

[20x1=20]

1. In which section of the act, powers of the drug inspectors are mentioned?
a) 20 b) 15
c) 21 d) 22
2. In which year first Pharmacy council of India was constituted?
a) 1948 b) 1949
c) 1940 d) 1960
3. Central register comes under which section of the act?
a) 13 b) 15A
c) 15 d) 21
4. Handling of prescription is a part of ethics related to?
a) Pharmacist in relation to trade b) Pharmacist in relation to medical profession
c) Pharmacist in relation to his job d) None of the above
5. In which year Col. R.N. Chopra was appointed as a chairman for the Drug Enquiry Committee?
a) 1928 b) 1930
c) 1927 d) 1931

6. Advertisement of chloroquin printed on cards in order to control malaria is?
- Objectable
 - Non-Objectable
 - Exempted
 - None
7. CSIR stands for?
- Council of Science and Industrial research
 - None
 - Council of Scientific and Industrial research
 - Both a & b
8. Rebate of duty on alcohol supplied for manufacture of dutiable goods whether this statement is true or false?
- True
 - False
9. Indent for procurement of rectified spirit shall be made in the prescribed form in how many copies?
- Duplicate
 - Single
 - Triplicate
 - None
10. Any person fails to pay the excise duty shall be liable to punishment with imprisonment up to?
- 1 year
 - 6 months
 - 5 months
 - 4 months
11. Indent for opium Indian hemp shall be made to the government opium factory which is situated in?
- Mumbai
 - Ghazipur
 - Chennai
 - Madhya Pradesh
12. Drug and Cosmetic Act, 1940 has been divided into how many chapters?
- 6
 - 7
 - 5
 - 8
13. Which section of the act prohibits advertisement promoting drugs for the diagnosis, cure, and treatment of any disease specified in the schedule?
- Section 4
 - Section 3
 - Section 5
 - Section 6
14. The single convention on narcotic drugs adopted by the United Nations conference at New York was held in the year?
- 1961
 - 1960
 - 1972
 - 1990
15. D & C act also provides regulation of Ayurveda, Siddha and Unani Drugs.
- True
 - False
16. The medical termination of pregnancy act and rules was passed in the year 1971, 1975 and regulation was passed in which of the following year?
- 2000
 - 2003
 - 2005
 - 1990

17. According to the act medical termination and pregnancy the term lunatic is mentioned in which section of the act?
- 4
 - 1
 - 2
 - 3
18. Which of this form no. is required for filling application to manufacture drugs specified in schedule C and C1?
- Form 28
 - Form 27B
 - Form 27
 - Form 28 B
19. Conditions which are to be satisfied before a license is granted are termed as?
- Conditions subsequent
 - Conditions precedent
 - Both a & b
 - None
20. Good Manufacturing Practices is laid down in which of this schedule?
- Sch M
 - Sch D
 - Sch G
 - Sch X

PART - B

Answer any SIX out of SEVEN

[6x5=30]

- Difference between bonded and non-bonded laboratory?
- What are the powers of Drug Inspectors?
- Write a brief note on Good Laboratory Practices (GLP)?
- Discuss in detail about the administration of the act and rules?
- Write a brief note on licensing of Medicinal and Toilet Preparation act?
- Discuss in detail about the manufacture of Drugs specified in Schedule C, C1 and X?
- What are the various prohibition of manufacture and sale of certain drugs?

PART - C

Answer any TEN out of ELEVEN

[10x3=30]

- What are the salient features of Drug and Cosmetic act 1940 and Rules 1945?
- Define Sch C, Sch H, Sch K, Sch G and Sch X.
- Elaborate Manufacturing of Drugs?
- What are the objectives of Medicinal and Toilet Preparations?
- Define Restricted Preparations and Standard Preparations
- Write a short note on chapter 1 of Pharmacy Act.
- Explain Pharmaceutical ethics?
- What are the exemptions of Drug and Magic remedies act?
- Define Advertisment and Magic remedy?
- Differentiate between DCC and DTAB?
- What are the objectives of the act Medical Termination of Pregnancy?

PART - C

Answer any TEN out of ELEVEN

[10x3=30]

1. Define and classify analgesic and antipyretic drugs.
2. Write down the pharmacokinetic, side effects, drug interaction and Contraindications of Paracetamol.
3. Write down the advantages and disadvantages of oral route of drug administration.
4. Define Metabolism of drugs. Write down the methods of drug metabolism.
5. Classify anti-tubercular drugs. Discuss the mechanism of action of Isoniazid.
6. Define Mydriatics and miotics with examples. Write down its mechanism of action and therapeutic uses.
7. Define and classify sedative and hypnotic drugs.
8. Define Chemotherapy of cancer. Classify anti-cancer drugs.
9. Classify the drugs used in peptic ulcer. Write the mechanism of action and adverse effect of Proton pump inhibitors
10. Discuss any 3 factors modifying biotransformation of drugs
11. Define and classify anti-thyroid drugs.



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Subject : Pharmacology and Toxicology

Roll No:

Course : D. Pharmacy

Full Marks : 80

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PART - A

Multiple Choice Questions

[20x1=20]

1. In an unconscious patient which is the preferred route of drug administration
a) Inhalation route b) Enteral route
c) Subcutaneous route d) Intravenous route
2. Which of the following is benzodiazepine antagonist?
a) Flumaziniol b) Oxazepam
c) Ispapirone d) Buspirone
3. What phenomenon can occur in case of using a combination of drugs?
a) Tolerance b) Tachyphylaxis
c) Synergism d) Accumulation
4. Which of the following is a prodrug:
a) Hydralazine b) Enalapril
c) Clonidine d) Captopril
5. First Generation anti-histamine Drugs
a) Cetirizine b) Loratidine
c) Azelastine d) Diphenhydramine

16. Test dose of penicillin is administered by which of the following route
- Intradermal
 - Intravenous
 - Intramuscular
 - Subcutaneous
17. Which effect may lead to toxic reactions when a drug is taken continuously or repeatedly?
- Refractoriness
 - Cumulative effect
 - Tolerance
 - Tachyphylaxis
18. Which of the following processes proceeds in the second phase of biotransformation?
- Acetylation
 - Reduction
 - Oxidation
 - Hydrolysis
19. Rate of absorption of drug is affected by
- Solubility of the drug
 - Route of drug administration
 - Physical state of the drug
 - All of the above
20. The science which is concerned with the study of mechanism of action of drug and pharmacological effects produced on human body is known as
- Pharmacology
 - Pharmacodynamics
 - Toxicology
 - Pharmacokinetics

PART - B

Answer any SIX out of SEVEN

[6x5=30]

- Define absorption of drugs. Discuss any four factors influencing drug absorption.
- Discuss any five factors modifying drug action
- Discuss any three pharmacological actions of aspirin, along with its therapeutic uses and adverse effects
- Write down any five advantages and disadvantages of Parenteral route of drug administration.
- Define and classify diuretics. write down the mechanism of action of Acetazolamide.
- Define hypertension. Classify anti-hypertensive drugs. Write the Mechanism of action of ACE inhibitors.
- Classify anti-malarial drugs. Write down the mechanism of action, therapeutic uses and adverse effects of Quinine.

6. Autocoids formed from Tryptophan
- Prostaglandins
 - Angiotensin
 - Histamine
 - Serotonin
7. Location of M2 receptor
- Blood vessels
 - Brain
 - Heart
 - All of the above
8. The antidepressant which selectively blocks serotonin reuptake is
- Rasagiline
 - Fluvoxamine
 - Moclobemide
 - All of the above
9. Which of the following is not an anti-depressant drugs
- Hydantoin
 - Tricyclic- antidepressants
 - MAOIs
 - SSRIs
10. Which of the following is includes in second phase of biotransformation
- Oxidation
 - Methylation
 - Hydrolysis
 - Reduction
11. What does "pharmacokinetics" include?
- Pharmacological effects of drugs
 - Unwanted effects of drugs
 - Chemical structure of a medicinal agent
 - Distribution of drugs
12. The study of absorption, distribution, metabolism and excretion of drug is known as
- Clinical Pharmacology
 - Pharmacokinetics
 - Pharmacodynamics
 - Pharmacotherapeutics
13. Indicate the mechanism of barbiturate action (at hypnotic doses):
- Increasing the duration of the GABA-gated Cl⁻ channel openings
 - Directly activating the chloride channels
 - Increasing the frequency of Cl⁻ channel opening events
 - All of the above
14. Application of the drug to the skin usually by a friction is known as
- Iontophoresis
 - Instillation
 - Inunction
 - None of the above
15. Fluoxetine belongs to which class of drugs
- TCA's
 - SSRIs
 - MAOIs
 - None of the above