

Date: 22/07/2023

Course : B. Pharmacy
 Subject Name : Medicinal Chemistry- II
 Max Marks : 75

Sem: V
 Subject Code : BP501T
 Duration : 3 Hr.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)**(10 x 2) = 20**

- i) Write mechanism of action of chlorthiazide.
- ii) What is arrhythmia? Classify Anti-arrhythmic Drugs.
- iii) What are Antihistaminic agents? Classify them.
- iv) What are oral contraceptives?
- v) How antimetabolites will act as an anticancer agent?
- vi) Classify antianginal drugs.
- vii) Write synthetic scheme for warfarin.
- viii) How Digoxin will help to cure congestive heart failure ?
- ix) Write synthetic scheme for tolbutamide.
- x) Brief about stereochemistry of steroids.

Q. 2. Long Answers (Answer 2 out of 3)**(2 x 10) = 20**

- i) Explain mechanism of action and SAR of local anesthetic agents. Give the synthetic route of dibucaine.
- ii) Classify the oral hypoglycemic agents with examples and explain biguanides and thiazolidinediones in details.
- iii) What are antihypertensive drugs? Classify them with examples and add a note on loop diuretics.

Q. 3. Short Answers (Answer 7 out of 9)**(7 x 5) = 35**

- i) Note on Anti-hyperlipidemic agents.
- ii) What are steroids? Write a note on corticosteroids.
- iii) What is hyperthyroidism. Write a note on antithyroid drugs.
- iv) Explain proton pump inhibitors with examples.
- v) Explain alkylating agents as antineoplastic drugs.
- vi) Write synthesis of diphenhydramine and promethazine.
- vii) Classify anti anginal drugs.
- viii) Note on calcium channel blockers.
- ix) Explain the mechanism of action of vasodilators with examples.

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Course : B. Pharmacy
Subject Name : Industrial Pharmacy I
Max Marks : 75

Sem: V
Subject Code : BP502T
Duration : 3 Hr.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)	(10 x 2) = 20
i) Define Enteric coating and give its advantages	
ii) Explain the significance of isotonicity in parenteral	
iii) Write the BCS classification of drugs	
iv) Write pyrogen test for parenteral	
v) What are pellets? Give advantages and disadvantages of pellets	
vi) Define cosmetics and give classification of cosmetics with examples.	
vii) Write identification test for emulsion.	
viii) What is simple syrup and Justify why preservatives are not added in simple syrup?	
ix) What is tablet tooling ?	
x) What is the difference between flocculated & deflocculated suspension?	
Q. 2. Long Answers (Answer 2 out of 3)	(2 x 10) = 20
i) Describe the components , types of aerosol system and Explain the evaluation test for aerosol	
ii) What is tablet? Explain the classification of tablet in detail along with the excipients used in the formulation of tablets.	
iii) Differentiate between Hard gelatin and soft gelatin capsule. Discuss manufacturing and filling methods of hard gelatin capsule	
Q. 3. Short Answers (Answer 7 out of 9)	(7 x 5) = 35
i) Define emulsion and explain different methods used in preparation of emulsion	
ii) Write formulation consideration & labeling for ophthalmic preparation	
iii) Elaborate manufacturing consideration of suspension.	
iv) Explain quality control test for packaging material	
v) Write a note on pelletization process.	

- vi) Explain the types of tablet coating and defects in coating.
- vii) Discuss Production facilities and Controlled environment required for parenteral preparation
- viii) Write a note on formulation of lipsticks and shampoo
- ix) Elaborate principal areas of preformulation research

-----END OF THE PAPER-----

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – SUMMER 2023

Date: 26/07/2023

Course: B. Pharmacy

Subject Name: Pharmacognosy & Phytochemistry-II

Max Marks: 75

Sem:

V

Subject Code: BP504T

Duration: 3 Hr.

I. Objective type Questions

(10 X 2 = 20)

- i. Define extraction and Marc.
- ii. What are resins and terpenoids?
- iii. Give the source and utilization of Taxol.
- iv. Define metabolic pathway with an example.
- v. Give the source and identification of Quinine.
- vi. Write morphology of Coriander.
- vii. Explain radioactive isotopes with examples.
- viii. Write Biological source and uses of Asafoetida.
- ix. Write utilization of Vincristine and vinblastine.
- x. Give types and applications of paper chromatography.

II. Long Answers (Answer 2 out of 3)

(2 X 10 = 20)

- i. What are Alkaloids? Classify them with examples and write in detail about Vinca.
- ii. Write in brief various methods of extraction of Phytoconstituents.
- iii. Explain Shikimic acid pathway in detail.

III. Short Answers (Answer 7 out of 9)

(7 X 5 = 35)

- i. Write synonyms, biological source, chemical constituent, identification test and uses of Digitalis.
- ii. Write Industrial production, estimation and utilization of Sennosides.
- iii. Briefly explain Steps involved in tracer techniques.
- iv. Write about isolation, identification, analysis of Curcumin
- v. Define chromatography and make a note on TLC

- vi. Write Industrial production, estimation and utilization of Atropine
- vii. Write difference between Sumatra benzoin & Siam benzoin.
- viii. Give isolation identification, analysis of Caffeine.
- ix. Write synonyms, biological source, chemical constituent, morphology and uses of Fennel.

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination –Summer2023

Date:27/07/2023

Course : B. Pharmacy
Subject Name : Pharmaceutical Jurisprudence
Max Marks : 75

Sem: Vth
Subject Code : BP505T
Duration : 3 Hr.

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)

(10 x 2) = 20

- i) What are Spurious Drugs?
- ii) Give the qualification required for the post of Drug Inspector in India.
- iii) Define "Coca derivatives" as per Narcotic Drugs and Psychotropic Substances Act
- iv) Who is Register Pharmacist as per Pharmacy Act 1948.
- v) What are Magic Remedies?
- vi) What is Euthanasia process in animal experimentation.
- vii) What is National List of Essential Medicines.
- viii) What does 'Information' means according to Right to Information Act?
- ix) What is Trade Mark?
- x) Match the following
 1. Drug Enquiry Committee
 2. Health Survey Development Committee
 3. Health Survey and Planning Committee
 4. Development of Drug Industry in India
 - a. Mr. Jaisukhlal Hathi
 - b. Sir Josef Bhore
 - c. Dr. A. L. Mudaliar
 - d. Col. R. N. Chopra

Q. 2. Long Answers (Answer 2 out of 3)

(2 x 10) = 20

- i) Explain in detail the provisions for the Manufacture of drugs under the Drug and Cosmetics Act 1940.
- ii) Explain in details the working of Bonded and Non-Bonded Manufacturing of Medicinal and Toilet Preparations.
- iii) Give the objectives of Prevention of Cruelty to Animals Act and Explain the CPCSEA guidelines for Breeding, Transfer and Experimentation on Animals.

Q. 3. Short Answers (Answer 7 out of 9)

(7 x 5) = 35

- i) Write the objectives, constitutions and various functions of PCI
- ii) Write a short note on Drug Technical Advisory Board (DTAB).
- iii) What is National Pharmaceutical Pricing Authority (NPPA) and Explain salient features of DPCO 2013.
- iv) Describe the objectives, constitution and functions of Narcotics and Psychotropic Consultative Committee
- v) Illustrate the findings and recommendations of drugs enquiry committee.
- vi) Give the code of ethics for pharmacist in relation to his job and trade.
- vii) What is IPR? Explain the process of application and grant of Patent in India
- viii) Discuss the prohibited and exempted advertisements under Drugs and Magic Remedies Act and Rules.
- ix) Give the objectives of Medical Termination of Pregnancy Act. and Explain in detail legal framework for the Medical Termination of Pregnancy under the Act.

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