

Question Paper

Exam Date & Time: 11-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR D. PHARM. EXAMINATION - JULY 2022

SUBJECT: PHARMACEUTICS - II (2.1)

(REGULATIONS 2014)

Marks: 80

Duration: 180 mins.

1. Answer ANY TEN questions.

- 1A) Enlist and explain various parts of prescription. (4)
- 1B) Discuss any four factors affecting dose selection of the drug. (4)
- 1C) Discuss in brief the various reasons which cause physical incompatibility with suitable examples and their remedy. (4)
- 1D) What are granular powders? Mention any four advantages of powders. (4)
- 1E) Define liniments and mention any two uses. Differentiate gargles and mouthwashes. (4)
- 1F) Write and explain the classification of suppository bases. (4)
- 1G) Differentiate flocculated and deflocculated suspension. (4)
- 1H) Define and classify emulsion. (4)
- 1I) Differentiate between vanishing cream and cleansing cream. (4)
- 1J) Write in brief about Total Parenteral Nutrition. (4)
- 1K) Write a note on dusting powders. (4)
- 1L) What is chemical incompatibility? Why does quinine sulphate undergo a Herapath reaction? (4)
- 1M) Define suspension. List the features of an ideal pharmaceutical suspension. (4)

2. Compulsory Questions.

- 2A) Explain the formulation and various methods of preparation of syrups. (14)
- [OR]
2B) Explain in detail about the formulation requirements for the semi solid dosage forms. (14)

3. Answer ANY TWO questions:

- 3A) What do you know about lipsticks? Write the qualities of ideal lipstick. Describe in brief about the formulation of lipsticks. (13)
- 3B) What do you mean by "Particulate Matter Monitoring"? What are the different sources of particulate matter? Write in brief about various methods used for monitoring particulate matter contamination. (13)
- 3C) Explain in detail about the instability aspect of emulsion and how it can be prevented. (13)

Question Paper

Exam Date & Time: 13-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR D PHARM DEGREE EXAMINATION - JULY 2022
SUBJECT: 2.2: PHARMACEUTICAL CHEMISTRY - II
(REPEATER)

Marks: 80

Duration: 180 mins.

1. Answer ANY TEN questions.

- 1A) Give the chemical structure and uses of sulphacetamide. (4)
- 1B) Classify antitubercular drugs. Give the chemical structure of isoniazid. (4)
- 1C) Give the structure, IUPAC name and uses of dapsone. (4)
- 1D) Give the properties and uses of chloroquine. (4)
- 1E) Give the mode of action, properties and uses of benzyl penicillin. (4)
- 1F) Give the chemical structure, IUPAC name and uses of metronidazole. (4)
- 1G) Classify anti-amoebic drugs with examples. (4)
- 1H) Discuss the properties, storage conditions and uses of imipramine. (4)
- 1I) Give the structure and uses of atropine. (4)
- 1J) What are CNS stimulants? Classify them. (4)
- 1K) Give the chemical structure and uses of ephedrine. (4)
- 1L) Give the properties, storage conditions and uses of haloperidol. (4)
- 1M) What are adrenergic drugs? Classify them. (4)
- 1N) Give the chemical structure and uses of Caffeine. (4)

2. Compulsory Question.

- 2A) Classify anti-inflammatory agents by giving one example each class. Mention the properties, storage conditions and uses of Aspirin and Paracetamol. (14)
- [OR]
- 2B) What are coagulants and anticoagulants? Write the chemical features, properties, storage conditions, uses and official preparations of Thrombin. Mention the properties, storage conditions and uses of Heparin and Warfarin sodium. (14)

3. Answer ANY TWO questions.

- 3A) What are diuretics? Give their classification. Give the structure, storage conditions and uses of Urea and Mannitol. (13)
- 3B) Define anticancer agents. Give the properties, storage conditions and uses of Mitomycin, (13)

Cyclophosphamide, Busulphan and Cisplatin.

- 3C) Give the classification of diagnostic agents. Write a note on X-ray contrast media as diagnostic agent. Mention the storage conditions and uses of Congo red and Fluorescein sodium. (13)

-----End-----

Question Paper

Exam Date & Time: 15-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR D. PHARM. EXAMINATION - JULY 2022
SUBJECT: PHARMACOLOGY & TOXICOLOGY (2.3)

Marks: 80

Duration: 180 mins.

Answer any TEN questions.

- 1A) Classify antitubercular drug with one example. (4)
- 1B) List the drugs used in peptic ulcer. (4)
- 1C) Mention various classes of antiviral drug with one example each. (4)
- 1D) Explain the mechanism of actions of sulphonamide. Name any two drugs from this category. (4)
- 1E) Classify the drugs used in the treatment of arrhythmia with an example each (4)
- 1F) Name various categories of β -blockers with one example each. Mention any one use of β -blockers (4)
- 1G) What is the importance of antiatherosclerotic drugs? Mention the mechanism of action of any one category of anti-atherosclerotic drugs (4)
- 1H) Explain various stages of general anaesthesia. (4)
- 1I) Mention any two advantages and disadvantages of oral and intravenous route of drug administration. (4)
- 1J) Discuss the importance of cardiac glycosides. (4)
- 1K) Write a note on the mechanism of actions of penicillin. Mention any three therapeutic uses. (4)
- 1L) Name various types of receptors with example. Mention its importance. (4)
- 1M) Classify oral hypoglycemic agents with example. Mention the mechanism of any one category (4)

Compulsory questions.

- 2A) Classify oral anticoagulants with example. Explain the pharmacology of Heparin. Discuss its therapeutic uses (14)
- [OR]
2B) Classify thyroid inhibitor drugs. Explain their therapeutic usage. (14)

3. Answer any TWO questions.

- 3A) Write a note absorption, distribution, metabolism and excretion of a drug. Explain the effect of pH on absorption and distribution of drugs. Explain the first pass effect. (13)
(4+4+5 = 13 marks)
- 3B) What is hypertension? Classify antihypertensive drugs with example. Mention the mechanism of (13)

action of any two categories.

30)

Explain the noradrenergic neurotransmission with a labelled diagram. Mention the drugs affecting it. (13)

-----End-----

Question Paper

Exam Date & Time: 23-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR D. PHARM. EXAMINATION - JULY 2022
SUBJECT: HOSPITAL AND CLINICAL PHARMACY (2.6)

Marks: 80

Duration: 180 mins.

Answer any TEN questions :

- 1A) Classify hospitals on basis of ownership. (4)
- 1B) Write a short note on evaluation of parenteral products. (4)
- 1C) Explain various type of cost analysis involved in hospital manufacturing. (4)
- 1D) Explain pathophysiology of Diabetes. (4)
- 1E) Explain the pathophysiology of atherosclerosis. (4)
- 1F) Mention the use of dimercaprol and Ethylene diamine tetra acetic acid (EDTA) in the treatment of poisoning. (4)
- 1G) Discuss the role of pharmacist in preventing adverse drug reactions. (4)
- 1H) Write a note on pharmacodynamics interactions. (4)
- 1I) Explain the role of pharmacy therapeutic community in drug safety. (4)
- 1J) What are the tests for identification of absorbent cotton? (4)
- 1K) Write a note on information retrieval from computers. (4)
- 1L) Define clinical pharmacy and discuss the scope of clinical pharmacy. (4)
- 1M) Write a note on patient counselling and compliance. (4)

Answer Question No. 2A OR 2B

- 2A) Describe clinical presentation and pathophysiology of rheumatoid arthritis. (14)
- [OR]
2B) Explain the role and significance of hospital formulary system. (14)

3. Answer TWO of the following:

- 3A) What are the reasons for drug abuse? How drug addicts are treated? (13)
- 3B) Define Central Sterile Supply Room (CSSR). Explain its layout with neat diagram. (13)
- 3C) Describe clinical presentation and pathophysiology of Epilepsy. (13)

-----End-----