

QP Code:

Reg. No.:.....

Third Year Pharm. D Degree Examinations

(Model Question Paper)

Pharmacology II

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Classify cephalosporins with examples and mention the mechanism of action, antimicrobial activities and dose of cephadrine. Explain the mode of action, adverse effects and therapeutic uses of Penicillin G (5+5=10)
2. Discuss in detail about the transcription and translation process in prokaryotics.
3. Classify Diuretics with examples. Mention the mechanism of action, therapeutic uses and dose of Amiloride. Explain the mechanism of action , toxicity, drug interactions and uses of cyclosporine. (5+5=10)

Short notes

(8x5=40)

4. Acute and chronic toxicity studies.
5. Heparin and aspirin
6. Mutation and Cell cycle
7. Describe the applications of gene therapy.
8. Adverse effects and therapeutic uses of chloramphenicol and rifampicin
9. Mode of action and therapeutic uses of cotrimoxazole and gentamicin
10. Pharmacology of miconazole and acyclovir
11. Metronidazole and albendazole

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Third Year Pharm. D Degree Examinations

(Model Question Paper)

Pharmaceutical Analysis

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Describe the construction of a double beam UV-Visible spectrophotometer with working principle of each part.
2. Classify chromatography based on its separation technique and explain the construction and application of a HPLC system
3. What is amperometry. Explain the construction of an amperometer and various amperometric titrations

Short notes

(8x5=40)

4. What are the different modes of vibration coming across IR absorption of organic molecules. Explain.
5. Draw Jablonski diagram with its various electronic transitions and mention the factors affecting fluorescence.
6. Explain flame photometric techniques with its application.
7. PH measurement and electrodes involved in it.
8. Construction of a dropping mercury electrode(DME) and various current coming across the polarogram.
9. Total quality management (TQM) and various quality reviewing techniques.
10. Principle involved in nuclear magnetic resonance spectroscopy.
11. Working principle of a polarimeter. Add a note on optical rotatory dispersion (ORD) and circular dichroism (CD).

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Third Year Pharm. D Degree Examinations

(Model Question Paper)

Pharmacotherapeutics II

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Explain in detail about pharmacological and non-pharmacological treatments of tuberculosis.
2. Explain basic principles of chemotherapy and management of chemotherapy induced nausea and vomiting.
3. Differentiate between rheumatoid arthritis and osteoarthritis and explain the pathogenesis of osteoarthritis and pharmacotherapy of rheumatoid arthritis.

Short notes

(8x5=40)

4. Life cycle of malaria parasite
5. Pathophysiology and management of psoriasis
6. Systemic lupus erythematosus
7. Management of chronic renal failure
8. Clinical features of gonorrhoea in male and female patients
9. Opportunistic infections
10. Pathophysiology and pharmacotherapy of pneumonia
11. Guideline for the rational use of antibiotics

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Third Year Pharm. D Degree Examinations

(Model Question Paper)

Pharmaceutical Jurispudence

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Discuss the composition and functions of state pharmacy council
2. What are the classes of drugs to be imported in India. List various conditions to be followed in getting a license to drugs which can be imported only under license.
3. Explain the penalties and offences under narcotic and psychotropic substances act and rules.

Short notes

(8x5=40)

4. Prevention of cruelty to animals act 1960
5. Drug technical advisory board
6. Bonded laboratory
7. Define advertisement, manufactured drug and cannabis
8. Specimen label for schedule H drug
9. Historical development of pharmacy education in India
10. Code of pharmaceutical ethics
11. Discuss on prohibited advertisement under drugs and magic remedies act.

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Third Year Pharm. D Degree Examinations

(Model Question Paper)

Medicinal Chemistry

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Briefly discuss the anti hypertensive drugs. Support your answer with suitable structures. Explain the SAR of 1, 4 -dihydropyridine as calcium channel blockers and add a note on synthesis of Any Two of ACE Inhibitors
2. Outline the life cycle of cancer and classify anticancer drugs. Support your answer with suitable structures. Outline the synthesis of any three anticancer agents
3. Discuss the anti viral drugs. Describe the synthesis of acyclovir and zidovudine . Add a note on anti fungal agent.

Short notes

(8x5=40)

4. What are the various parameters used in QSAR studies and add a note on molecular modelling
5. List the various thyroid hormonal malfunctions. Classify anti-thyroid drugs with suitable examples and the synthesis of any two
6. Classify antimalarial drugs with example and add a note on the life cycle of malarial parasite. Sketch the synthesis of chloroquinone and primaquine
7. Classify sulpha drugs. Discuss the SAR of sulphanilamides and synthesis of sulphadiazine and sulphasalazine .
8. Anthelmintics and add a note on synthesis of mebendazole and diethylcarbamazine citrate.
9. Describe about prodrug based drug design
10. Classify diuretic agents and add a note on SAR of thiazide diuretics. Sketch the synthesis of frusemide.
11. Explain: • Degradation of penicillins and cephalosporines • Urinary antiseptics

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(Model Question Paper)

Pharmaceutical Formulations

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Discuss briefly about various excipients used in tablet formulation and their functions
2. List the tests for glass containers used for parenterals
3. Mention the formula of HGC shell. Add a note on filling of the HGC shell

Short notes

(8x5=40)

4. Trans dermal drug delivery system
5. Formulation of jellies
6. Method of preparation of suppositories
7. Evaluation of suspensions
8. Types of ointment bases
9. Quality control tests for soft gelatin capsules
10. Concepts of parenteral controlled drug delivery system
11. Problems encountered during tablet manufacturing
