

Q. P Code: 411006

FINAL YEAR B.PHARM DEGREE EXAMINATIONS

(Model Question Paper)

PHARMACEUTICAL CHEMISTRY V

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Discuss on β lactam antibiotics. Describe the chemistry and SAR. Describe the structure and synthesis of ampicillin.
2. Describe adrenergic drugs. Explain the chemistry and SAR. Explain the synthesis of any two drugs.
3. Classify antineoplastic drugs with suitable examples. Add a note on the mechanism of action of each category. Explain the synthesis of methotrexate.

Short notes

(14x5=70)

4. QSAR
5. Applications of prodrug design with examples.
6. The use, structure and synthesis of chloroquine.
7. The chemistry of anthelmintic drugs.
8. Explain the structure, chemistry and synthesis of any one loop diuretic
9. Antiprotozoal drugs
10. Mention the structures of the following
*Ethionamide *Acyclovir *Mefloquin *Pethidine *Tolnaftate
11. Mention the synthesis of diazepam and diphenhydramine
12. The physicochemical properties affecting the biological action
13. Proton pump inhibitors
14. Amide type local anaesthetics
15. Explain the chemistry of sulphonyl urea derivatives coming under antidiabetics
16. Classify NSAIDs. Explain the synthesis of any one drug coming under this group
17. Chemistry and uses of anticholinergics.

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FINAL YEAR B.PHARM DEGREE EXAMINATIONS

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PHARMACEUTICAL ANALYSIS II

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Explain sample handling and instrumentation of an IR spectrometer.
2. Explain the theory and applications of paper chromatography.
3. Explain the indicator electrodes used in potentiometric titrations.

Short notes

(14x5=70)

4. Detectors used in gas chromatography.
5. Counter current extraction methods.
6. Detectors used in gas chromatography..
7. Ionization techniques in mass spectrometry..
8. ICH guidelines
9. Principle of radio-immuno assay.
10. Chemical shift in NMR spectroscopy.
11. Dropping mercury electrode.
12. Uses of HPTLC in plant drug research.
13. Construction of a standard hydrogen electrode
14. Uses of X-ray diffraction in pharmacy.
15. Construction and working of a hollow cathode lamp.
16. Importance of validation of analytical equipments.
17. Uses of differential scanning calorimetry in pharmacy.

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FINAL YEAR B.PHARM DEGREE EXAMINATIONS

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PHARMACOGNOSY III

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Classify flavanoids with examples. Mention their biogenesis sources, chemistry and uses.
2. Explain the advantages of biodiversity and the measures to conserve biodiversity.
3. describe the physicochemical methods for evaluation of crude drugs.

Short notes

(14x5=70)

4. Biogenesis of tropane alkaloids.
5. Gene transfer methods.
6. The uses of terpenoids.
7. The chemistry of anthraquinone glycosides.
8. Tissue culture media.
9. The trade of taxol.
10. The applications of UV spectroscopy in herbal drug analysis.
11. Optical isomerism of phytochemicals..
12. Two industrial units in India dealing with herbal medicines.
13. Classify herbal cosmetics with examples.
14. Prebiotics and Probiotics.
15. Chemistry and pharmacology of ergot alkaloids.
16. The evaluation methods for herbal tablets.
17. The requirements of a tissue culture laboratory.

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FINAL YEAR B.PHARM DEGREE EXAMINATIONS

(Model Question Paper)

PHARMACEUTICS - VI

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Discuss about the processing problems and devaluation of tablets.
2. Explain pharmaceutical aerosols. Explain the formulation and packaging of aerosols with special reference to valve systems, types of propellants and filling methods.
3. Describe the equipments for large scale manufacture of parenterals. Add a note on quality control tests for parenterals.

Short notes

(14x5=70)

4. Lyophilisation
5. Tablet excipients.
6. Containers used in parenterals.
7. Formulation of coating solution
8. Containers, closures and evaluation of ophthalmic products.
9. Total parenteral nutrition
10. Types of glasses and plastics employed for packing.
11. Shampoos.
12. Dentifrices
13. Liposomes.
14. Advantages of transdermal drug delivery.
15. Process validation.
16. Preparation of catgut.
17. Plasma substitutes.

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FINAL YEAR B.PHARM DEGREE EXAMINATIONS

(Model Question Paper)

PHARMACOLOGY - II

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Discuss about the phases and conduct of clinical trial.
2. Classify antineoplastic agents with suitable examples of each class. Mention the common adverse effects of these agents. Add a note on alkylating agents.
3. Explain NSAIDS including classification, advantages and side effects.

Short notes

(14x5=70)

4. Drugs in alzheimers disease.
5. Outline the principle and protocol for bioassay of digitalis.
6. Management of methanol poisoning.
7. Newer anti-epileptic drugs.
8. Pharmacotherapy of urinary tract infections.
9. Various neurotransmitters present in the CNS and its role in the pathogenesis of diseases.
10. Comment on the therapeutic potential of MAO inhibitors.
11. Indications, dosage schedule and adverse effects of human immunoglobulins.
12. Pharmacological actions of oxytocin. Compare ergometrine and oxytocin.
13. Various phases of clinical trials in drug development
14. Modalities in the management of drug poisoning using paracetamol as an example.
15. Compare SSRIs and TCAs as anti depressants.
16. Role of fibrinolytic agents in the management of acute stroke.
17. Applications of gene therapy.

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FINAL YEAR B.PHARM DEGREE EXAMINATIONS

(Model Question Paper)

PHARMACY PRACTICE

(2012 Scheme)

Time: 3 Hours

Max.Marks: 100

Answer all questions

Draw diagrams wherever necessary

Essay:

(3x10=30)

1. Discuss the functions of central sterile supply unit – definition, organization, layout, functioning and types of materials for sterilization equipments.
2. Describe congestive heart failure. Mention the clinical manifestations and treatment of CCF.
3. Explain the objectives, composition and functions of pharmacy and therapeutic committee.

Short notes

(14x5=70)

4. In-patient drug distribution system.
5. Preparation and revision of hospital formulary
6. Organization of drug store..
7. Procurement of drugs in a tertiary care hospital.
8. CSSR.
9. Duties and responsibilities of clinical pharmacist.
10. Liver function tests.
11. Drug use in infants
12. ADR monitoring methods
13. Pharmacological and non pharmacological management of diabetes.
14. TB management and DOTS programme.
15. Pharmacoeconomics.
16. Treatment algorithm for rheumatoid arthritis.
17. Definition and scope, methods and systems of monitoring drug effects.