QP Code :

FIRST YEAR B.PHARM DEGREE EXAMINATION

(Model Question Paper -2012 Scheme)

Pharmaceutical Chemistry - I

(Inorganic & Physical Chemistry)

Time : 3 hours

- Answer all questions
- Write equations wherever necessary

Essav:

- 1. Discuss the limit test for arsenic and sulphate.
- 2. Describe the various sources of impurities in pharmaceutical substances.
- 3. Outline the method of preparation, assay and uses of aluminium hydroxide gel and ammonium chloride.

Short Notes:

- 4. Explain the method of preparation and assay of hydrogen peroxide.
- 5. Explain the assay of carbon dioxide
- 6. Physiological role of iron and copper.
- 7. Define surface tension and viscocity.
- 8. Explain the method of preparation, assay and uses of ferrous sulphate.
- 9. Define refractive index. Explain the working principle of Abay's refractometer.
- 10. Explain the various methods and importance of quality control.
- 11. Explain Debye Huckel theory.
- 12. Explain optical activity. Describe the working of Polarimeter.
- 13. Define antidote. How sodium nitrite is used in some specific poisoning.
- 14. Define electrolytes used in replacement therapy.
- 15. DEfine assay of chlorinated lime.
- 16. Explain method of preparation, assay and uses of ferrous Sulphate.
- 17. Complete and balance the following equations -
 - Boric acid + glycerol •
 - Ca (OCI) CI + H₂O + CH₃COOH
 - Cu SO 4 + KI
 - NAF + H₂O
 - $NH_4 CI + HCHO$

(3x10=30)

(14x5=70)

Reg No:....

Max Marks: 100

QP Code :

FIRST YEAR B.PHARM DEGREE EXAMINATION

(Model Question Paper -2012 Scheme)

Pharmaceutical Chemistry - II

(Organic Chemistry)

Time : 3 hours

- Answer all questions
- Write equations wherever necessary

Essay:

- 1. Explain the electrophilic reactions of alkenes with any two examples.
- 2. Explain on resonance, hyperconjugation, mesomeric effect and inductive effect with examples.
- 3. Explain the mechanism and synthetic application of Cannizaro's reaction and Hoffmann's degradation

Short Notes:

- 4. Discuss three methods of preparation of alcohols and how do you distinguish between 1 – propanol and 2 – propanol
- 5. Explain Walden's inversion with example.
- 6. What is Williamson's synthesis. Explain the action of hydroiodic acid on ethers.
- 7. Explain Kolbe Schmidt reaction.
- 8. Mention two methods of synthesis of nitriles and explain their reactivity.
- 9. Explain the effects of substituents in electrophilic aromatic substitution.
- 10. Mention two methods of synthesis and three chemical reactions of carboxylic acids.
- 11. Explain the aldol and crossed aldol condensation reaction.
- 12. Describe the functional reactions of nitriles
- 13. Explain why acyl halides are more reactive then alkyl halides towards nucleophilic substitution reaction.
- 14. Describe the Fries arrangement and its mechanism.
- 15. Comment on the basicity of amines.
- 16. Explain the Bayer's strain theory.
- 17. Explain the effect of halogen on electrophilic aromatic substitution reaction.

(3x10=30)

Max Marks: 100

(14x5=70)

Reg No:....

QP Code :

FIRST YEAR B.PHARM DEGREE EXAMINATION

(Model Question Paper -2012 Scheme)

Human Anatomy and Physiology

Time : 3 hours

- Answer all questions
- Write equations wherever necessary

Essay:

- 1. Describe the outflow and functions of autonomic nervous system with reference to its sympathetic division.
- 2. Describe the structure of cell with and its components with their functions.
- 3. Explain the histology of nervous tissue with the help of a neat labeled diagram.

Short Notes:

- 4. Draw a neat labeled diagram of normal ECG. Correlate the ECG waves with atrial and ventricular systole.
- 5. Describe the metabolic, antiinflammatory and immune functions of alucocorticosteroids.
- 6. Summerize the functions of medulla oblongata.
- 7. Describe the bones of upper limb.
- 8. Briefly describe the structure and functions of respiratory system.
- 9. Define and explain vital capacity and anoxia.
- 10. Describe the process of spermatogenesis.
- 11. Describe the digestion and absorption in small intestine.
- 12. Discuss the mechanism of blood coagulation.
- 13. Describe briefly the mechanism of micturition.
- 14. Explain the physiology of menstruation.
- 15. Explain the physiology of hearing.
- 16. Discuss the anatomy and physiological functions of liver.
- 17. What are the types of leucocytes and their function.

(3x10=30)

(14x5=70)

Reg No:....

Max Marks: 100

QP Code :

FIRST YEAR B.PHARM DEGREE EXAMINATION

(Model Question Paper -2012 Scheme)

Pharmacognosy- I

Time: 3 hours

- Answer all questions
- Write equations wherever necessary

Essay:

- 1. Describe the various factors affecting cultivation of medicinal plants.
- 2. Discuss about the plant families Labiatae and Rubiaceae.
- 3. Narrate a pharmacognostical report on clove

Short Notes:

- 4. Mention source , constituents and uses of cinnamon and podophyllum.
- 5. Outline the classification of volatile oils with examples.
- 6. Pharmaceutical aids.
- 7. Write the source, chemical constituents , uses and chemical tests for beeswax.
- 8. Define tannins and classify with examples. Add a note on Goldbeater's skin test for tannins.
- 9. Explain about polyploidy.
- 10. What are plant growth regulators. Discuss about auxins and gibberellins.
- 11. Animal and microbiological sources of drugs.
- 12. What are the methods of drying crude drugs.
- 13. Describe a natural fibre obtained from animal source used in Pharmacy .
- 14. Resin containing drug.
- 15. Discuss about the morphological classification of crude drugs.
- 16. Mention the source , method of preparation , uses and chemical tests for cod liver oil.
- 17. Differentiate between Cinnamon and cassia.

Reg No:....

Max Marks: 100

(3x10=30)

(14x5=70)

QP Code :

FIRST YEAR B.PHARM DEGREE EXAMINATION

(Model Question Paper -2012 Scheme)

PHARMACEUTICS I

(Dispensing and general Pharmacy)

Time : 3 hours

• Answer all questions

• Write equations wherever necessary

Essay:

- 1. Explain the different parts of a prescription. Write a model prescription.
- 2. Describe the Soxhlet apparatus and explain the extraction taking place in it.
- 3. Define emulsion and mention about creaming and cracking. Add a note on phase inversion.

Short Notes:

- 4. What are the reasons of formulating drug in a dosage form.
- 5. Define proof spriit. Find out the proof spirit of an elixir containing 30% v/v alcohol.
- 6. Discuss any five reasons for therapeutic incompatibility.
- 7. Define maceration. Differentiate double and triple maceration.
- 8. Discuss the history of Indian Pharmacopea.
- 9. Mandle's paint.
- 10. How much of a 2 % ointment should be added to 30g of a 15 % ointment to make a 5 % ointment
- 11. Explain the principle involved in the preparation of Liniment of Turpentine IP.
- 12. Mention the types of suppository bases. Add a note on the advantages and disadvantages of each.
- 13. Explain the different methods of preparation of ointments.
- 14. Explain the ingredients , method of preparation , use and dose of strong ammonium solution IP.
- 15. How will you dispense powders with volatile substances and powders with potent drugs.
- 16. Classify different types of mixtures.
- 17. Mention three examples of liquid dosage forms for internal use and define them.

(3x10=30)

(14x5=70)

Reg No:....

Max Marks: 100