

FACULTY OF PHARMACY

B. Pharmacy 4/4 II – Semester (Main) Examination, March 2014

Subject: Hospital and Clinical Pharmacy

Time : 3 Hours

Max. Marks : 70

Note: Answer ALL questions. All questions carry equal marks.

- 1 (a) Discuss the purpose and functions of various hospital committees and the role of pharmacist in hospital committees.
OR
(b) Define hospital and explain the organizational chart of a typical hospital.
- 2 (a) What is hospital formulary? Explain its contents, preparation and distribution in a typical hospital.
OR
(b) Discuss the role of pharmacist in :
(i) Purchasing and inventory control
(ii) Budget planning
- 3 (a) (i) Discuss the scope of clinical pharmacy.
(ii) Write a note on patient counseling.
OR
(b) (i) Discuss about adverse drug reaction management.
(ii) Write a note on drug information centre.
- 4 (a) (i) Give an account of central sterile services.
(ii) Discuss the importance of rational drug use.
OR
(b) Explain drug-drug interactions with examples.
- 5 (a) Describe the symptoms and etiology of
(i) hypertension (ii) peptic ulcer
OR
(b) Discuss the pharmacotherapy and rational use of drugs in
(i) asthma (ii) tuberculosis

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B.Pharmacy 4/4 II-Semester (Main) Examination, March 2014

Subject: Cosmetic Technology

Time : 3 Hours

Max. Marks: 70

Not e: Answer All questions. All questions carry equal marks

- 1 (a) (i) Define 'Cosmetics' and write about the classification of cosmetic preparations with suitable examples.
(ii) With a neat sketch, describe the structure of skin and mention the functions.
- OR**
- (b) (i) Enumerate different types of colouring agents that are used in cosmetic preparations.
(ii) Write a note on legal and regulatory requirements related to cosmetics.
- 2 (a) (i) What are cleansing creams? Write about the formulation of cleansing creams.
(ii) Explain in detail about the formulation and evaluation of a baby lotion.
- OR**
- (b) (i) Write in detail about the various stages involved in the manufacture of lipsticks.
(ii) What are eye preparations? Write about various types of mascaras.
- 3 (a) (i) Discuss about the raw materials used in the formulation of nail lacquers.
(ii) Mention the differences between preshave and after shave lotions. Write about the formulation of an after shave lotion.
- OR**
- (b) (i) Mention the differences between lather shaving cream and brushless shaving cream. Write about the formulation of a lather shaving cream.
(ii) Write about the formulation and evaluation of a body lotion.
- 4 (a) (i) What are the desirable characteristics of an abrasive in a toothpaste preparation. How will you manufacture a toothpaste.
(ii) What is the mechanism of hair dyeing? Explain the formulation of a permanent hair dye.
- OR**
- (b) (i) What are the various preparations marketed for hair care. Describe about the evaluation of a shampoo preparation.
(ii) Write about formulation of mouthwashes.
- 5 (a) (i) What are herbal cosmetics? Name various herbal ingredients used in cosmetics industry.
(ii) How do you formulate and manufacture herbal shampoo?
- OR**
- (b) (i) What are face packs? How do you formulate and manufacture a face pack with herbal ingredients?
(ii) Write about the formulation and evaluation of a herbal moisturizing lotion.

FACULTY OF PHARMACY

B. Pharmacy 4/4 II-Semester (Main) Examination, April 2014
Subject: Pharmacoinformatics

Time : 3 Hours

Max. Marks: 70

Note: Answer all questions. All questions carry equal marks

- 1 (a) What is the concept of database and classify them? (7)
(b) Write about data mining and Knowledge Discovery in Databases (KDD) (7)
- OR**
- (c) Write about codd's rules in databases. (7)
(d) Write about normalization in database. (7)
- 2 (a) What is sequence alignment? Write about dynamic programming method for sequence alignment?
- OR**
- (b) Write about Hidden Markov model and its applications in alignment and prediction? (7)
(c) Write about Homology search and pattern matching. (7)
- 3 (a) Describe in detail about the drug information services and resources available. (10)
(b) Write about bar-coding in pharmacy. (4)
- OR**
- (c) What is pharmacy automation? Write about automated medication dosage, filing and packaging.
- 4 (a) Describe about homology search algorithms for proteins and nucleic acids. (BLAST and FASTA)
- OR**
- (b) What are biological databases? Give their importance and write about databases for protein structure. (PDB, SCOP and CATH).
- 5 (a) What is QSAR ? Write about QSAR methods and applications of QSAR ? (Hansch Analysis and Free-Wilson Analysis).
- OR**
- (b) What are the theories for drug – receptor interactions? Explain them.

FACULTY OF PHARMACY**B. Pharmacy 4/4 II – Semester (Main) Examination, March 2014****Subject: Pharmaceutical Biotechnology****Time : 3 Hours****Max. Marks: 70*****Note: Answer all questions. All questions carry equal marks.***

- 1 (a) (i) Describe the steps involved in rDNA Technology. (12)
(ii) What are Restriction Endonucleases and DNA ligases. (2)
- OR**
- (b) Explain the production of insulin by rDNA technology. (14)
- 2 (a) Explain the methods of strain development. (14)
- OR**
- (b) Explain the production of amylases by fermentation technology. (14)
- 3 (a) Explain manufacture, standardization, storage and specific applications of pertussis vaccine. (14)
- OR**
- (b) Explain the production of BCG and polio vaccines. (7+7)
- 4 (a) What are plasma substitutes? Explain in detail the production of Dextran. (2+12)
- OR**
- (b) Explain the extraction and isolation of pure substance from Adrenal and Pancreas glands. (7+7)
- 5 (a) Explain types and methods of biotransformation. (7+7)
- OR**
- (b) Explain the methods of immobilization of enzymes with few industrial applications. (7+7)
