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B.PHARM
PH.8.1

8th Semester Regular / Back Examination 2015-16

Pharmaceutics – VII

(PHARMACEUTICAL TECHNOLOGY-III)

BRANCH(S): Pharmacy

Time: 3 Hours

Max Marks: 70

Q.CODE: W124

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

Q1 Answer the following questions: **(2 x 10)**

- a) Mention the significance of Carr's Index in preformulation study.
- b) Describe correlation between particle size and dissolution of a drug.
- c) What is enteric coating? Give the name of two polymers used for enteric coating tablets.
- d) Give the schematic representation of rate limiting steps in the design of controlled release drug delivery systems.
- e) What is liposome? Mention the potential advantage of liposome for parenteral therapy.
- f) Write very briefly about magnetic microspheres.
- g) Write main points of bioavailability testing protocol.
- h) Mention very briefly the general characteristics of lipstick.
- i) Describe the process of evaluation of Shampoo.
- j) What is dose dumping, describe with proper reason.

Q2 What is preformulation? Mention the objectives and timing and protocol of preformulation study. **(2+3+5)**

- Q3**
- a) Explain briefly the factors influencing the development of a controlled released dosage form. **(7)**
 - b) Describe how controlled released and conventional dosage forms are differentiated. **(3)**

Q4 Describe briefly about (any two) **(5 x 2)**

- a) Partition Coefficient
- b) Intrinsic solubility
- c) Polymorphism

Q5 Describe the design and production of diffusion controlled drug delivery system. **(10)**

Q6 a) Write the rationality to design the transdermal drug delivery systems. **(4)**
b) Describe different types of TDDS. **(6)**

Q7 Write notes on (any two) **(5 x 2)**
a) Resealed erythrocytes
b) IUD
c) Deodorants

Q8 Describe the USP apparatus I used in dissolution study, how it differ from apparatus II. **(10)**

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B.PHARM
PH.8.3

8th Semester Regular / Back Examination 2015-16
CLINICAL PHARMACY AND THERAPEUTICS

Time: 3 Hours

Max Marks: 70

Q.CODE: W150

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following: **(2 x 10)**
- a) Name the drugs used for the treatment of Angina.
 - b) Write the possible drug-drug interactions between penicillin and probenecid?
 - c) Write the drugs used for treatment of Ulcerative colitis.
 - d) Write the uses of mast cell stabilizers with examples.
 - e) Define essential drugs with examples?
 - f) Write the different adverse effects of ACE inhibitors.
 - g) Write the management of status epilepticus?
 - h) Write the drugs used for treatment of thyrotoxicosis.
 - i) Write the uses of neuroleptics.
 - j) Write the mechanism and uses of Allopurinol.
- Q2** Define drug-drug interactions with suitable examples? Write detail notes on pharmacodynamic drug interactions. **(3+7)**
- Q3** Define and classify diabetes mellitus. Write the pathophysiology and pharmacological approaches for the treatment of type-2 diabetes mellitus. **(2+8)**
- Q4** Define and classify hypertension. Write the etiology and therapeutic management of essential hypertension. **(4+6)**
- Q5** Classify anti-depressants. Write detail management for treatment of depression. Write a note on cheese reaction. **(2+4+4)**
- Q6** Write notes on: **(5x2)**
- a) Acute Leukemia
 - b) Rheumatoid arthritis
- Q7** Describe the therapeutic approach for the treatment of tuberculosis. **(10)**
- Q8** Write notes on: **(5+5)**
- a) Adverse drug reaction
 - b) Therapeutic drug monitoring

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B.PHARM
PH.8.4

8th Semester Regular / Back Examination 2015-16

QUALITY ASSURANCE & GMP

BRANCH(S): B.PHARM

Time: 3 Hours

Max Marks: 70

Q.CODE: W221

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

Q1 Answer the following questions:- **(2 x 10)**

- a) What is the importance of Q.A in Pharmacy?
- b) What do you mean by Process validation?
- c) What is Quality audit?
- d) What is MFR & BMR?
- e) Name some analytical validation parameters as per validation protocol?
- f) What is Quality control & Quality assurance?
- g) Differentiate between efficiency & effectiveness?
- h) Define TQM & QMS?
- i) What is product recall?
- j) How complaints can be handled?

Q2 a) What are the guidelines for validation of cleaning procedures? **(5)**

b) Write in brief about the features of process validation? **(5)**

Q3 a) Describe about the quality assurance features with reference to organization? **(5)**

b) What are the responsibilities & qualifications of personnel? **(5)**

Q4 Describe briefly about the salient features of GMP with reference to manufacture of drugs in India? **(10)**

Q5 a) Write in brief about the features of production control? **(5)**

b) What are the guidelines for selection & purchase specification of equipments? **(5)**

Q6 a) Write about the salient features of regulatory authorities of India? **(5)**

b) Write in brief about the role of regulatory affairs department? **(5)**

Q7 a) What are the guidelines for stability testing protocol of drug products? **(5)**

b) Describe about the ware housing operations with reference to quality assurance? **(5)**

Q8 Write short notes on:- **(5 x 2)**

- a) ISO
- b) TQM
- c) Documentation
- d) Quality review

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B.PHARM
PH.8.5

8th Semester Regular / Back Examination 2015-16

PHARMACEUTICAL MANAGEMENT

Time: 3 Hours

Max Marks: 70

Q.CODE: W283

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

- Q1** Answer the following: **(2 x 10)**
- a) Define the term delegation of authority.
 - b) What is bank reconciliation statement?
 - c) What is employees morale?
 - d) What is marketing and how it is different from pharmaceutical marketing?
 - e) Window display plays a vital role in advertising products in a drug store. Comment.
 - f) What is reorder point policy & fixed time interval policy in inventory management?
 - g) Briefly describe the personal and vocational qualities of a salesman.
 - h) What are communication and its process?
 - i) How demand forecasting plays a vital role in determining the production quantity?
 - j) What do you mean by lead time uncertainties?
- Q2** Briefly explain the recruitment, training and compensation of a pharmacist. **10**
- Q3** Discuss the principles of insurance. **10**
- Q4** Explain the law of demand and law of supply with their exceptions. **10**
- Q5** In today's era of competition "M" for material is the most important out of 5 Ms of management. Justify. **10**
- Q6** Describe different performance evaluation techniques with special reference to MBO. **10**

Q7 What are production management and its objectives?

10

Q8 Differentiate between (Any two)

5+5

- a) Trial balance & balance sheet
- b) Recruitment & selection
- c) Authoritative leader & free-rein leader

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B.PHARM
PH.8.6(PH.E.1)

8th Semester Regular / Back Examination 2015-16
COSMETIC TECHNOLOGY
BRANCH: Pharmacy
Time: 3 Hours
Max Marks: 70
Q.CODE: W351

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions: **(2 x 10)**
- a) Define SPF value.
 - b) Write the composition of anti-ageing preparation.
 - c) Mention the characteristics of nail lacquer.
 - d) Define shelf life.
 - e) Write the quality control tests for cream or lotion.
 - f) Define anti-oxidant.
 - g) What is Coupler?
 - h) Give two examples of anti-dandruff agents.
 - i) Write the composition of eye liner.
 - j) Give two examples of inorganic Humectants used in cosmetic preparations.
- Q2** Classify hair care products. Write the Ideal properties and raw materials required to prepare shampoo with its evaluation. **(10)**
- Q3** a) Lipsticks. **(5)**
b) Dental preparations **(5)**
- Q4** Define cosmetic. Classify it; briefly discuss the various raw materials and methods used for cosmetic preparations. **(1+2+7)**
- Q5** a) Hair Dyes **(5)**
b) Aerosol Propellants **(5)**
- Q6** Classify shaving preparations. Mention the various ingredients and preparation methods of shaving cream. **(2+8)**
- Q7** a) Packaging of cosmetics. **(5)**
b) Nail polish **(5)**
- Q8** Define skin preparation. Write the composition and method of preparation of sunscreen products. **(10)**