

PURUS – VII (SEMESTER PATTERN): APRIL/MAY - 2012
SUBJECT : PHARMACOLOGY-IV

Day: Saturday
Date: 12-05-2012

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 80

N.B.

- 1) **Q. No.1 and 5 are COMPULSORY.** Out of the remaining attempt any **TWO** question from **Section – I** and any two question from **Section – II.**
- 2) Answer to the two sections should be written in the **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION – I

- Q.1** Give scientific reasons for **ANY FIVE** of the following **(10)**
- a) Doxycyclin is preferred over tetracycline
 - b) Concomitant administration of glyburide with oral contraceptives is avoided
 - c) In the treatment of ulcerative colitis sulfasalazine is used
 - d) Development of 3 new lipid formulations of amphotericin B
 - e) Tetracycline is contraindicated in children and pregnant women
 - f) In cotrimoxazole quantity of sulfamethoxazole is five times more than that of trimethoprim.
- Q.2** a) Describe the problems that arise with the use of antimicrobial agents **(08)**
b) Describe the general principles in chemotherapy of cancer **(07)**
- Q.3** a) Classify antitubercular drugs. Explain the treatment of tuberculosis with reference to short course. **(08)**
b) Classify antiamoebic drugs. Write notes on the treatment of amoebiasis. **(07)**
- Q.4** Write short note on **ANY THREE** of the following **(15)**
- a) Combined use of antimicrobials
 - b) Anthelmintic treatment of neurocysticercosis
 - c) Artemisinin derivatives
 - d) Fourth generation cephalosporins

SECTION – II

- Q.5** Give scientific reasons for **ANY FIVE** of the following **(10)**
- a) Enlist preparations of insulin
 - b) Name hormones of anterior pituitary gland
 - c) Enumerate hormones of adrenal cortex
 - d) Mention indications of insulin
 - e) Enumerate side effects of testosterone
 - f) Classify antithyroid drugs.

P.T.O.

- Q.6** a) Classify oral hypoglycaemic agents Describe their mechanism of action and adverse effects Comment on the status of oral hypoglycaemics in the treatment of diabetes mellitus (08)
- b) Describe the drugs used in pediatric patients (07)
- Q.7** a) Describe the adverse effects and therapeutic uses of glucocorticosteroids (08)
- b) Explain the synthesis, actions and uses of hormones of thyroid gland (07)
- Q.8** Write short note on **ANY THREE** of the following (15)
- a) Anabolic steroids
 - b) Adverse effects of oral contraceptives
 - c) Prolactin
 - d) Drugs used in pregnancy.

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PURUS-VIII : APRIL/MAY-2012 (Sem Pattern)
SUBJECT : MEDICINAL CHEMISTRY-IV

Day : Saturday
Date : 21-04-2012

Time : 2:00 P.M. TO 5:00 P.M.,
Max. Marks : 80.

N.B.:

- 1) Q. No.1 and Q. No. 5 are **COMPLUSARY**. Out of the remaining solve any **TWO** questions from each section.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Solve any **Five** of the following (10)
- a) Search out the synthesis for Ibuprofen.
 - b) Write any two structures of NSAID drugs belonging to aryl anthranilic acid class with their names
 - c) Enlist various methods used for QSAR
 - d) Write down the synthesis of any one drug belonging to sulfonylurea class
 - e) Give examples of NSAID drug whose metabolite is as active or more active than the drug itself.
 - f) What are fibrinolytic agents? Give their examples.
- Q.2** Explain in detail SAR, MOA and side effects of morphine and their analogs. (15)
- Q.3** a) Explain oral antidiabetic agents. (07)
b) Give the SAR of thyroid hormone. (08)
- Q.4** Write short notes on **Any Three** of the following: (15)
- a) Agents used for organ function test
 - b) Oral anticoagulants
 - c) Insulin and its preparation
 - d) CADD

SECTION - II

- Q.5** Solve any **Five** of the following (10)
- a) Write down the structure and IUPAC name of hydrocortisone or Estriol
 - b) Write down the synthesis of diphenhydramine
 - c) Enlist various H₂ blockers
 - d) Give any two examples of anabolic steroids
 - e) Give uses of prostaglandins
 - f) Give any two examples of coumarin class of anticoagulants
- Q.6** What are adrenocorticoids? Give their classification. Explain in brief (15)
chemistry and SAR of glucocorticoids
- Q.7** What are antihistaminic agents? Give their classifications. Explain in brief (15)
ethylenediamine class of antihistaminics.
- Q.8** Write short notes on Any Three (15)
- a) Combinatorial chemistry
 - b) Female sex hormones
 - c) Nomenclature of prostaglandins
 - d) Natural anticoagulants

PURUS -VIII (SEMESTER PATTERN): APRIL / MAY - 2012
SUBJECT: PHARMACEUTICAL MANAGEMENT

Day: Monday
Date: 14-05-2012

Time: 2:00 P.M. TO 5:00 P.M.
Max. Marks: 80

N.B.:

- 1) **Q. No. 1 and 5 are COMPULSORY.** Out of remaining, attempt any **TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat diagrams **WHEREVER** necessary.

SECTION-I

- Q.1** Answer Any **FIVE** of the following: **(10)**
- a) Why management is an art as well as science?
 - b) Differentiate between policies and procedures.
 - c) Give schematics presentation functions of management.
 - d) Define the terms logistic distribution.
 - e) Enumerate the advantages of GATT in pharmacy.
 - f) Why communication is an essence of management?
 - g) Enumerate the sources of requirement of staff.
- Q.2** a) Define planning and discuss management by objectives. **(08)**
b) Explain the process of staffing in a pharma industry. **(07)**
- Q.3** a) Draw an organization structure of pharma industry and discuss the departmentation and its significance. **(08)**
b) Discuss the importance control technique in an industry. **(07)**
- Q.4** Write short notes on (Any **THREE**): **(15)**
- a) Theories of motivation
 - b) Leadership qualities
 - c) Performance appraisal techniques
 - d) History of pharmacy profession in India
 - e) Current status of pharma industry in India

SECTION-II

- Q.5** Answer Any **FIVE** of the following: **(10)**
- a) Define validation and state its merits.
 - b) Enumerate advantages of pharma audits.
 - c) Define quality circle.
 - d) Comment on TQM.
 - e) Define ISO -9000-2008 and state its significance.
 - f) What is GLP?
 - g) Enumerate the roles of QA department?

- Q.6** Give the principle of BEP technique and solve the following examples. **(15)**
- | | | |
|----------------|---|------------------|
| Batch size | - | 10,000 tables |
| Selling prize. | - | Rs. 2 per tables |
| Variable cost | - | Rs. 10,000 |
| Fixed Cost | - | Rs. 25,000 |
- Calculate
- i) P/ v ratio
 - ii) DEP
 - iii) Profit as sales of 16,0000
 - iv) Sales at the grace profit of Rs. 20,000
 - v) Margin of safety
- Q.7**
- a) Discuss in detail the different steps involved in new product development. **(08)**
 - b) What is GMP and CGMP? Discuss the GMP for building and equipment. **(07)**
- Q.8** Write short notes on (Any **THREE**): **(15)**
- a) Training and development
 - b) Product life cycle
 - c) Inventory control technique
 - d) PERT and CPM

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