

MANIKGAD – II : SUMMER - 2016
SUBJECT: PHARMACOTHERAPEUTICS – I

Day: *Thursday*
Date: *21.04.2016*

Time: *10.00 A.M. To 1.00 P.M.*
Max Marks. 70

N.B.

- 1) Q. No. 1 and Q. no. 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to the both the section should be written in **SEPARATE** answer book.

SECTION - I

- Q.1** a) Answer any **FOUR** of the following (08)
- i) Write the unwanted effects of nitrates
 - ii) Discuss the aetiology of asthma
 - iii) Define CCF
 - iv) Mention drugs belong to Statin
 - v) Mention the indications for Pulmonary Function Tests
 - vi) Differentiate between chronic bronchitis & emphysema
- b) Etiology, signs and symptoms of Myocardial infraction. (03)
- Q.2** Discuss the pharmacological and nonpharmacological treatments for hypertension. (12)
- Q.3** a) Classify angina and write in detail about pharmacotherapy of angina. (07)
- b) Discuss pharmacotherapy of COPD (05)
- Q.4** Write short notes on any **THREE**: (12)
- a) Glaucoma
 - b) ACE inhibitors
 - c) Role of glucocorticosteroids in Asthma
 - d) Management of viral conjunctivitis

SECTION - II

- Q.5** a) Answer any **FOUR** of the following (08)
- i) Why the biguanides known as euglycemic drugs
 - ii) Enlist insulin preparations
 - iii) What do you mean by essential drugs?
 - iv) What are the risk factors associated with osteoporosis?
 - v) Explain the role of estrogen as contraceptives.
 - vi) Justify the beta blockers in hyperthyroidism
- b) What is the symptoms of Hypothyroidism and explain the treatment of it? (03)
- Q.6** Enlist the complications of Diabetes mellitus and explain the role of sulfonylureas and biguanides on Diabetes mellitus. (12)
- Q.7** a) Give the mechanism of oral contraceptives and enlist its adverse drug reactions. (07)
- b) Establish the relation between changes in action of drugs with the changes of Pharmacokinetic and Pharmacodynamic in geriatric patients. (05)
- Q.8** Write short notes on any **THREE**: (12)
- a) Prescribing guidelines in pregnancy.

MANIKGAD – II: SUMMER - 2016
SUBJECT : COMMUNITY PHARMACY

Day : Monday
Date : 18.04.2016

Time : 10.00 A.M. To 1.00 P.M.
Max. Marks : 70

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1 a)** Attempt **ANY FOUR** of the following: [08]
- i) Define term community pharmacy and clinical pharmacy.
 - ii) Write meaning of terms “medical store, chemist and druggist and pharmacy as per Drug and Cosmetics Act, 1940.
 - iii) Describe seven star concept of Pharmacist.
 - iv) Write significance of “Refill” instructions in prescription.
 - v) Define Lead time and Recorder point.
 - vi) What do you mean by SALA medicines, write examples?
- b)** Discuss ideal stock arrangement of medication in pharmacy. [03]
- Q.2** Discuss selection of site, space layout and design of community pharmacy that to be established in township area. [12]
- Q.3 a)** Discuss steps involved in dispensing of prescription drug. [06]
b) Suggest strategies to overcome barriers in patient counseling. [06]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) ABC method of inventory control
 - b) Patient counseling for antacids
 - c) Legal requirements to establish community pharmacy
 - d) Pharmaceutical care

SECTION – II

- Q.5 a)** Attempt **ANY FIVE** of the following: [08]
- i) Describe a method to check blood sugar level of a diabetic patient.
 - ii) Write health promotion aspects to prevent amoebiasis.
 - iii) Discuss common drug treatment for tuberculosis.
 - iv) Write non-pharmacological means to treat constipation.
 - v) Write normal and abnormal values of cholesterol levels in human..
 - vi) Write patient counseling for oral pills.
- b)** Write reasons and remedies to improve medication adherence. [03]
- Q.6** Discuss concept of OTC medication, its merits, demerits and significance of patient counseling for OTC medication. [12]
- Q.7 a)** Write role of pharmacist in paediatric care. [06]
b) Justify the ethical considerations related to the appearance of premises and competent person in community pharmacy. [06]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
- a) Rational drug therapy

MANIKGAD - II: SUMMER - 2016
SUBJECT : PHARMACOGNOSY & PHYTOPHARMACEUTICALS

Day : *Monday*
Date : *11-04-2016*

Time : *10.00 A.M. To 1.00 P.M.*
Max. Marks : 70

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1 a)** Attempt **ANY FOUR** of the following: [08]
- i) What are crude drugs? Give two examples of crude drugs of animal origin
 - ii) What is taxonomic classification? Give example
 - iii) Write Biological source and significance of pyrethrum
 - iv) Enlist various methods of collection of bark
 - v) What do you understand by the term sophistication and spoilage
- b)** Which are different plant fibers used in surgical dressings? [03]
- Q.2 a)** Write in detail history and scope of pharmacognosy [07]
- b)** What are leaf constants? Give their significance with suitable examples [05]
- Q.3** Describe various factors affecting cultivation of medicinal plants [12]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Honey
 - b) Acacia
 - c) Guar Gum
 - d) Agar

SECTION - II

- Q.5 a)** Attempt **ANY FOUR** of the following: [08]
- i) Define acid value and iodine value
 - ii) Write Biological source and significance of starch
 - iii) Write chemical test to identify castor oil
 - iv) What is difference between organized and unorganized crude drug?
 - v) Give two examples of waxes along with their uses
- b)** Write in detail classification of lipids [03]
- Q.6 a)** Describe in detail different pesticides obtained from natural origin [07]
- b)** Write a note on various cell constituents [05]
- Q.7** Write in detail different methods of adulteration of crude drugs with suitable example [12]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
- a) Shark liver oil
 - b) Arachis oil
 - c) Kokum butter

MANIKGAD-II: SUMMER - 2016
SUBJECT: PHARMACOLOGY-I

Day: Wednesday
Date: 13.04.2016

Time: 10.00 A.M. To 1.00 P.M.
Max. Marks: 70

N.B:

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

SECTION-I

- Q.1** a) Answer **ANY FOUR** of the following: (08)
- i) Define clinical trials. Name its stages
 - ii) Define miotics. Give two examples.
 - iii) Classify hypolipidemic drugs.
 - iv) Define synergism. Give examples.
 - v) Define clearance and half-life.
- b) Explain the types of toxicity studies. (03)
- Q.2** Define drug-drug interaction. Explain in detail pharmacodynamic drug interaction. Add a note on food-drug interaction. (12)
- Q.3** a) Give the therapeutic classification of sympathomimetics with examples. Explain the pharmacology of β_2 -agonists. (07)
- b) Explain the role of corticosteroids in the treatment of bronchial asthma. (05)
- Q.4** Write note on **ANY THREE** of the following: (12)
- a) Dale's vasomotor reversal
 - b) Myasthenia gravis
 - c) Fibrates
 - d) Plasma Protein Binding

SECTION-II

- Q.5** a) Answer **ANY FOUR** of the following: (08)
- i) Classify local anesthetics with examples
 - ii) Enlist the uses of anti-adrenergic drugs.
 - iii) Why is adrenaline combined with local anesthetics?
 - iv) Define status epilepticus.
 - v) Define analgesics. Give examples.
- b) Write a note on expectorants and anti-tussives. (03)
- Q.6** Classify NSAIDs with examples. Explain in detail the mechanism of action, pharmacology, adverse effects and uses of selective COX-2 inhibitors. (12)
- Q.7** a) Classify anti-epileptic drugs. Explain in detail the role of phenytoin in treatment of epilepsy. (07)
- b) Write short note on treatment of barbiturate poisoning. (05)
- Q.8** Write note on **ANY THREE** of the following: (12)

MANIKGAD – II: SUMMER - 2016
SUBJECT : PHARMACEUTICAL MICROBIOLOGY

Day : *Thursday*
Date : *07-04-2016*

Time : *10.00 A.M. To 1.00 P.M.*
Max. Marks : 70

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1 a)** Answer **ANY FOUR** of the following: [08]
- i) Write the mechanism of action of cold sterilization.
 - ii) What is the purpose of a counter stain in Gram staining technique?
 - iii) Write about Bacterial Nomenclature.
 - iv) Classify Viruses.
 - v) Give the cause of Scrub Typhus and Trench Fever.
- b)** Explain “Whittaker’s Five – Kingdom” Concept. [03]
- Q.2 a)** ‘Fungi are versatile microorganisms’. Justify this statement. [07]
- b)** How will you preserve microbial cultures in Laboratory? [05]
- Q.3** How will you test the sterility of ophthalmic preparations as per IP? [12]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Spirochetes
 - b) Bacterial Reproduction
 - c) Acid – fast staining
 - d) Koch’s Postulates

SECTION – II

- Q.5 a)** Answer **ANY FOUR** of the following: [08]
- i) Give significance of MIC.
 - ii) Enlist limitations of Phenol Coefficient Test.
 - iii) Compare between active and passive immunity.
 - iv) Write significance of Western Blot Test.
 - v) What is Phagocytosis?
- b)** Classify various immunological products. [03]
- Q.6 a)** Discuss the preparation of bacterial vaccines. [07]
- b)** How microbial assays of vitamins are performed? [05]
- Q.7** Explain in detail production and uses of monoclonal antibodies. [12]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
- a) HIV
 - b) Preservative Efficacy Test
 - c) PCR Test

MANIKGAD – II : SUMMER - 2016
SUBJECT: PATHOPHYSIOLOGY

Day: Tuesday
Date: 05.04.2016

Time: 10.00 A.M. TO 1.00 P.M.
Max Marks. 70

N.B.

- 1) Q. No. 1 and Q. no. 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to the both the section should be written in **SEPARATE** answer book.

SECTION - I

- Q.1** a) Answer any **FOUR** of the following (08)
- i) Name any two autoimmune diseases.
 - ii) Differentiate between Benign and malignant tumors.
 - iii) Define cell adaptation.
 - iv) Enlist few local factors influencing healing.
 - v) What you mean by autoimmunity?
 - vi) Explain metaplasia with examples.
- b) Enumerate few glycogen storage diseases (03)
- Q.2** Define inflammation and its subtype. Explain pathological events of acute inflammation. (12)
- Q.3** a) Describe pathophysiology of reversible cell injury. (07)
b) Discuss the pathogenesis of cancer. (05)
- Q.4** Write short notes on any **THREE**: (12)
- a) Mechanism of autoimmunity
 - b) Process involved in wound healing
 - c) Mechanism of graft rejection
 - d) Types of hypersensitivity reaction

SECTION - II

- Q.5** a) Answer any **FOUR** of the following (08)
- i) Define and classify hypertension.
 - ii) Enlist different types of shock. Explain haemorrhagic shock.
 - iii) Write about SO_2 and CO .
 - iv) Discuss the pathogenesis of starvation.
 - v) Mention biological effects of radiation
 - vi) Mode of transmission of Hepatitis A
- b) Discuss pathophysiology of asthma (03)
- Q.6** Define diabetes mellitus. Discuss about different types of diabetes, causes and associated complications. (12)
- Q.7** a) Explain in detail pathogenesis of HIV. (07)
b) What is Parkinson's disease? Write the pathophysiological basis of parkinsons disease. (05)
- Q.8** Write short notes on any **THREE**: (12)
- a) Depression
 - b) Causes of obesity