

SECOND YEAR PHARM. D : SUMMER - 2018

SUBJECT : COMMUNITY PHARMACY

Day : **Monday**
Date : **16/04/2018**

S-2018-4030

Time : **02.00 P.M. TO 05.00 PM**
Max. Marks : 70.

N.B.:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of remaining attempt any **TWO** questions from Section-I and any **TWO** questions from Section-II
 - 2) Section-I and Section-II should be written in **SEPARATE** answer book.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION-I

Q.1 A) Answer any **FOUR** of the following: **(08)**

- a) Write ideal method to stock medicines in a community pharmacy.
- b) Write about a prescription format suggested by Pharmacy Practice Regulation.
- c) Write principal of A, B, C concept of inventory control.
- d) Write merits and demerits of patient information leaflets.
- e) Write remedies and strategies to improve medication adherence that takes place due to busy working of patient.

B) Write with examples significance of advisory labels in patient counseling. **(03)**

Q.2 Discuss merits and demerits of patient counseling and strategies to overcome barriers of patient counseling. **(12)**

Q.3 a) Define medication adherence, its significance and ways to detect medication non-adherence. **(06)**

b) Discuss with example, medication related problems occurred due to improper prescription. **(06)**

Q.4 Write short notes on any **THREE** of the following: **(12)**

- a) VED and EOQ concept of inventory control
- b) Use of computers in health care
- c) Pharmaceutical care
- d) Pharmacy practice.

P.T.O.

SECTION-II

- Q.5** A) Answer any **FOUR** of the following: **(08)**
- a) Write values of blood pressure and its indications.
 - b) Write causative agents for hepatitis and malaria.
 - c) Describe the disease- gonorrhoea and its symptoms.
 - d) Suggest non-pharmacological means and common treatment to control diarrhoea.
 - e) Explain the concept of essential drugs and write recent happening in this area.
- B) Describe blood glucose testing using glucometer. **(03)**
- Q.6** Discuss the concept of OTC medication, its legal aspect, methods to identify and examples of OTC medicines. Write special note on OTC medication v/s self-medication? **(12)**
- Q.7** a) Write role of pharmacist in dispensing of oral contraceptives, possible drug interactions and patient counseling. **(06)**
- b) Discuss concept of rational drugs use and ways to promote it. **(06)**
- Q.8** Write short notes on any **THREE** of the following: **(12)**
- a) Code of ethics specifically while dispensing the drugs.
 - b) Common drug therapy for vomiting and pyrexia.
 - c) Prevention of deficiency disorders related to oil soluble vitamins.
 - d) Drug indication and contraindication in pregnancy.

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SECOND YEAR PHARM. D : SUMMER - 2018

SUBJECT: PATHOPHYSIOLOGY

Day : *Thursday*
Date : *05-04-2018*

S-2018-4026

Time 02.00 P.M. TO 05.00 PM
Max.Marks:70

N.B.

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

SECTION-I

- Q.1 a) Answer **ANY FOUR** of the following: (08)
- i) What is wet gangrene? Give two examples.
 - ii) Define Autografts and Allografts.
 - iii) Define CCF
 - iv) Name clinical features of Parkinsonism.
 - v) Draw a well Labelled diagram of HIV
 - vi) What you mean by Protein Caloric Nutrition?
- b) Enlist the conditions due to fat soluble vitamin deficiency. (03)
- Q.2 Describe the pathophysiology of cell injury. (12)
- Q.3 a) Define immunity and discuss mechanism of autoimmunity. Write a note on Allograft rejection. (07)
- b) Types of hypersensitive reaction. (05)
- Q.4 Write short notes on **ANY THREE** of the following: (12)
- i) Glycogen storage disease.
 - ii) Pathophysiology of Hypertension.
 - iii) Pathophysiology of Schizophrenia.
 - iv) Pathogenesis of Parkinsonism.

SECTION-II

- Q.5 a) Solve **ANY FOUR** of the following : (08)
- i) Define Malignant tumor.
 - ii) Define Tuberculosis.
 - iii) Explain in brief about role of Vitamins.
 - iv) Enlist types of Shock.
 - v) What is pneumonia?
 - vi) Explain in brief about Leprosy.
- b) Explain basic mechanism of chronic inflammation. (03)
- Q.6 Explain Pathophysiology of cancer. (12)
- Q.7 i) Explain Pathophysiology of HIV. (07)
- ii) Explain two types of Hepatitis. (05)
- Q.8 Write a note on **ANY THREE** of the following: (12)
- i) Urinary Tract Infection.
 - ii) Amoebic dysentery.
 - iii) Mechanism of Shock.
 - iv) Biological effect in Radiation.

SECOND YEAR PHARM. D : SUMMER - 2018
SUBJECT : PHARMACEUTICAL MICROBIOLOGY

Day Saturday
Date 07/04/2018

Time **02.00 P.M. TO 05.00 PM**
Max. Marks : 70

S-2018-4027

N.B.:

- 1) **Q.NO.1 and Q.No.5 are COMPULSORY.** Out of the 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.
- 4) Draw neat and labeled diagrams **WHEREVER** necessary.

SECTION – I

- Q.1** a) Answer **ANY FOUR** of the following: [08]
i) Explain contributions of Paul Ehrlich
ii) Give functions of cell wall.
iii) What is the significance of a counter stain in Gram staining method?
iv) Enlist Biological Indicators.
v) Define 'D-value' and 'Magnification Power'.
- b) Explain "Whittaker's Five Kingdom Concept". [03]
- Q.2** Discuss the structure of bacterial cell with neat labeled diagram. [12]
- Q.3** a) Explain sterility testing of injectables as per I.P. [07]
b) Give morphology and significance of *Penicillium notatum*. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
a) Spirochetes
b) Lytic Cycle of Viruses
c) Evaluation of disinfectants
d) Cell Mediated Hypersensitivity

SECTION – I

- Q.5** a) Answer **ANY FOUR** of the following: [08]
i) Define 'Virulence' and 'Attenuation'.
ii) Classify vaccines.
iii) Enlist non-specific defense mechanisms.
iv) Enlist limitations of Phenol Coefficient Test.
v) Enlist Non-Thermal Sterilization Methods.
- b) Differentiate between exotoxins and endotoxins. [03]
- Q.6** Describe in detail bacterial growth and its quantitative measurement. Add a note on 'Isolation of Bacteria'. [12]
- Q.7** a) Describe Microbial Assay of Antibiotics. [07]
b) How vaccines are standardized? [05]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
a) HIV
b) Type II hypersensitivity
c) Maintenance of Bacterial Cultures
d) Booster Dose

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SECOND YEAR PHARM.D. : SUMMER-2018

SUBJECT : PHARMACOGNOSY & PHYTOPHARMACEUTICALS

Day : Tuesday

Time : 2:00 P.M. TO 5:00 P.M.

Date : 10-04-2018 S-2018-4028

Max. Marks : 70

N.B.:

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

SECTION – I

- Q.1** A) Answer **ANY FOUR** of the following: [08]
- i) Define crude drugs. Give two examples of origin mineral.
 - ii) How is chemical classification of crude drug done? Explain with suitable examples.
 - iii) Explain the difference between organized and organized drugs with suitable examples.
 - iv) Write significance of saponification value.
 - v) Give two examples of alkaloidal drugs.
- B) Describe in brief agricultural pest control. [03]
- Q.2** a) Describe in detail classification of Carbohydrates. [07]
b) Write a note on gum tragacanth. [05]
- Q.3** a) What are leaf constants? Give their significance. [07]
b) Write various methods of cultivation. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
- a) Analytical parameters of lipids
 - b) Storage of crude drugs
 - c) Honey
 - d) Plant fibres

SECTION – II

- Q.5** A) Answer **ANY FOUR** of the following: [08]
- i) What are secondary metabolites?
 - ii) Give classification of proteins.
 - iii) What is alphabetical classification of crude drug?
 - iv) Write difference between gums and mucilage.
 - v) What are Weedicides?
- B) Describe in detail processing of crude drugs. [03]
- Q.6** a) Write in detail about chemistry of lipids. [07]
b) Describe scope of Pharmacognosy. [05]
- Q.7** a) Enlist factors affecting cultivation. [07]
b) Explain Adulteration of crude drugs. [05]
- Q.8** Write short notes on **ANY THREE** of the following: [12]
- a) Plant cell constituents
 - b) History of Pharmacognosy
 - c) Caster oil
 - d) Plant cell wall

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SECOND YEAR PHARM. D : SUMMER - 2018
SUBJECT : PHARMACOLOGY- I

Day : **Thursday**
Date : **12/04/2018**

Time **02.00 P.M. TO 05.00 PM**
Max. Marks : 70

S-2018-4029

N.B.

- 1) Q.1 and Q.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 both the sections should be written in **SEPARATE** answer book.

SECTION – I

- Q.1** a) Answer any **FOUR** of the following: (08)
- i) Classify hypolipidemic drugs.
 - ii) Enlist the scope of pharmacology.
 - iii) Define bioequivalence.
 - iv) Classify drugs used in CHF.
 - v) Define Pharmacodynamics.
- b) Name the common drugs used to produce mydriasis and miosis. (03)
- Q.2** Classify the Antihypertensive drugs. Describe mechanism of action, ADME, therapeutic uses and preparation doses of propranolol and nifedipine. (12)
- Q.3** a) Enumerate the various routes of administration of drugs. Discuss the advantages and disadvantages of each route. (07)
- b) Describe the therapeutic uses and adverse effects of anticholinergic drugs. (05)
- Q.4** Write a note on any **THREE**: (12)
- a) Advantages and disadvantages of Drug Interactions
 - b) Treatment of parkinsonism
 - c) Dose response relationship
 - d) Antiarrhythmic drugs

SECTION – II

- Q.5** A) Solve any **FOUR** of the following: (08)
- i) Define hypnotics. Give two examples.
 - ii) Write the treatment of morphine poisoning.
 - iii) Enlist different types of hormonal contraceptives.
 - iv) Classify H₁ antihistaminics.
 - v) Define antipsychotics with examples.
- b) Explain the platelet activating factor. (03)
- Q.6** What are general anesthetics? Give sign and stages of anesthesia. Classify the anesthetics according to their mode of administration. Describe pharmacology of halothane. (12)
- Q.7** a) What are analgesics? Describe pharmacological action and therapeutic uses of opioids. (07)
- b) What are cough suppressants and expectorants? Describe the drugs used for these actions. (05)
- Q.8** Write a note on any **THREE**; (12)
- a) Nasal Decogestants
 - b) Treatment of methyl alcohol poisoning
 - c) Antithyroid drugs
 - d) Action of histamine

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SECOND YEAR PHARM. D : SUMMER - 2018
SUBJECT : PHARMACOTHERAPEUTICS - I

Day : **Wednesday**
Date : **18/04/2018**

Time : **02.00 P.M. TO 05.00 PM**
Max. Marks : **70**

S-2018-4031

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 both the sections should be written in the **SEPARATE** answer books.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.

SECTION - I

- Q. 1 A)** Answer **ANY FOUR** of the following: **(08)**
- i) Enlist two medicines used to control asthma.
 - ii) Write the unwanted effects of Nitrates.
 - iii) Enlist signs and symptoms of conjunctivitis.
 - iv) Differentiate between essential and secondary hypertension.
 - v) Define FVC, FEV₁
 - vi) Mention goal of therapy of Myocardial Infraction.
- B)** Discuss the role of diuretics in hypertension. **(03)**
- Q. 2** Discuss etiology, clinical manifestations and pharmacotherapy Of M.I **(12)**
- Q. 3 a)** Discuss the pharmacotherapy of COPD **(07)**
- b)** Discuss about drug induced bronchospasm. **(05)**
- Q. 4** Write short notes on **ANY THREE** of the following: **(12)**
- a) Pharmacotherapy of Glaucoma.
 - b) Pulmonary Function Test
 - c) Bronchodialators
 - d) Pharmacotherapy of CCF.

P. T. O.

SECTION - II

- Q. 5 A)** Answer **ANY FOUR** of the following: **(08)**
- i)** Describe the symptoms of type 2 Diabetes Mellitus.
 - ii)** Describe the mechanism of combined oral contraceptive.
 - iii)** Explain insulin synthesis.
 - iv)** Enlist the causes of hypothyroidism.
 - v)** Discuss common adverse effects of iodine & iodide.
 - vi)** Define teratogenicity with examples.
- B)** Prescription guidelines for pregnancy **(03)**
- Q. 6** Explain the pathophysiology, clinical presentations, complications and management of hyperthyroidism. **(12)**
- Q. 7 a)** Discuss general prescription guidelines for geriatrics. **(07)**
- b)** Describe in detail about Hormone Replacement Therapy. **(05)**
- Q. 8** Write short notes on **ANY THREE** of the following: **(12)**
- a)** Pathogenesis of osteoporosis.
 - b)** Management of type 2 Diabetes Mellitus.
 - c)** Rational drug Formulations
 - d)** HbA1C

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