

MANIKGAD-II : SUMMER- 2017
SUBJECT : PATHOPHYSIOLOGY

Day : Friday
Date : 07/04/2017

Time : 10.00 A.M. TO 01.00 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 Section-I and Section-II.
- 2) Answers to the 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 questions of the following: (08)**
- a) What do you mean by repair and regenerations?
 - b) Differentiate between coagulative and liquifactive necrosis.
 - c) What is granuloma?
 - d) List out the difference between benign and malignant tumors.
 - e) Write a note on food allergy.
 - f) What is oxidative stress?
- B) Write a note on T and B lymphocytes. (03)**
- Q.2 Explain the etiology and pathogenesis of cancer. (12)**
- Q.3 A) Explain Pathogenesis of cell injury. (07)**
B) Explain the factors that influence the healing of wounds. (05)
- Q.4 Write short note on (Any Three) (12)**
- a) Glycogen infiltration.
 - b) Gangrene.
 - c) Types of chronic inflammation.
 - d) Mechanism of graft rejection.
 - e) Cell adaptation.

SECTION-II

- Q.5 A) Answer any FOUR questions of the following: (08)**
- a) Define CCF.
 - b) What are Common symptoms of Atherosclerosis?
 - c) Explain chronic renal failure.
 - d) Explain about obesity.
 - e) Define peptic ulcer.
 - f) Explain about air pollution.
- B) Explain about Myocardial infarction. (03)**
- Q.6 Define and classify Diabetes Mellitus. Explain in detail about pathogenesis of Diabetes Mellitus. (12)**
- Q.7 A) Explain about HIV. (07)**
B) Explain about Pathogenesis of starvation. (05)
- Q.8 Write short note on (Any Three) (12)**
- a) Pathophysiology of chronic obstructive airway disease.
 - b) Pathophysiology of urinary tract infections.
 - c) Pathophysiology of Inflammatory bowel diseases.
 - d) Pathophysiology of Stroke.
 - e) Protein calorie malnutrition.
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MANIKGAD-II : SUMMER- 2017
SUBJECT : PHARMACEUTICAL MICROBIOLOGY

Time : 10.00 A.M. TO 01.00 P.M.
Max. Marks : 70.

Day : Monday
Date : 10/04/2017

N.B.:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from Section-I and Section-II.
- 2) Answers to the 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

(08)

Q.1 a) Answer any **FOUR** questions of the following:

- i) List applications of *Aspergillus niger*.
- ii) Justify Whittaker's Five-Kingdom concept.
- iii) Is pasteurized milk sterile? Justify.
- iv) Give properties of an ideal disinfectant.
- v) Compare flagella with pili.

(03)

b) What is the formula of a bacteriological media?

Q.2 How unknown bacterial culture is identified? Also, comment on 'Bacterial counting methods.' (12)

Q.3 a) Explain various methods used in the evaluation of disinfectants. (07)
b) Discuss 'Thermal Sterilization Techniques.' (05)

Q.4 Write short note on (Any Three) (12)

- a) Spirochetes
- b) Differential Media
- c) Cultivation of Viruses
- d) Membrane Filters for Sterilization.

SECTION-II

(08)

Q.5 a) Answer any **FOUR** questions of the following:
i) Differentiate between Active and Passive Immunity.
ii) Draw a neat, labeled structure of HIV.
iii) What is a 'Booster Dose'?
iv) How vaccines are stored and preserved?
v) What is PCR?

(03)

b) Define and explain 'Microbial Assays.'

Q.6 Discuss the nature and structure of 'Antigen' and 'Antibodies.' Elaborate on various 'Antigen-Antibody' reactions. (12)

Q.7 a) How bacterial vaccines are prepared and standardized? (07)
b) Discuss microbiological assay of vitamins. (05)

Q.8 Write short note on (Any Three) (12)

- a) Monoclonal Antibodies
- b) Hepatitis
- c) Western Blot Test
- d) Delayed Hypersensitivity

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MANIKGAD – II : SUMMER- 2017
SUBJECT:-PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Day : Wednesday
Date : 12/04/2017

Time: 10.00 A.M. TO 01.00 P.M.
Max. Marks: 70

N. B.

- 1) Question 1 and 5 are **COMPULSORY**. Out of remaining solve **ANY TWO** from each section
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPERATE** answer book.

SECTION – I

- Q.1 A) Solve any four** (08)
- i) Write four drugs obtained from animal origin.
 - ii) What is pest? Give four examples.
 - iii) What is the role of Golgi bodies and ER in cells?
 - iv) Give various methods for collection of bark.
 - v) What is resolution power and magnification power of microscope.
- B) Write advantages of cultivation.** (03)
- Q.2** Describe in detail history and scope of pharmacognosy. (12)
- Q.3 A** What is taxonomical classification? Explain with suitable examples. (07)
- B** Differentiate between organized and unorganized drug. (05)
- Q.4** Write notes on **Any Three** (12)
- a) Microscopic examination of crude drug.
 - b) Effect of soil and soil fertility in cultivation of crude drug.
 - c) Effect of rain fall/irrigation on plant growth.
 - d) Natural pesticide.

SECTION – II

- Q.5 A) Solve Any Four** (08)
- i) What is PUFA? Give two examples.
 - ii) What is stomatal index? Write its significance.
 - iii) Enlist analytical methods for lipids.
 - iv) Give biological source and uses of gum acacia.
 - v) Give biological source and uses of arachis oil.
- B) What is adulteration? Give examples.** (03)
- Q.6** What are lipids? Give classification, properties and chemical test for lipids. (12)
- Q.7 a)** What are different plant fibers? Explain plant fibers used in surgical dressing (07)
- b)** Give classification of protein with suitable examples. (05)
- Q.8** Write notes on **Any Three** (12)
- a) Starch
 - b) Castor oil
 - c) Shark liver oil
 - d) Agar

MANIKGAD-II : SUMMER- 2017
SUBJECT : PHARMACOLOGY-I

Day : Saturday
Date : 15/04/2017

Time : 10.00 A.M. TO 01.00 P.M.
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.

SECTION-I

- Q.1 A)** Answer any **FOUR** of the following: (08)
- i) What is prodrug?
 - ii) What is clearance?
 - iii) What are essential drugs?
 - iv) Define mutagenicity and carcinogenicity.
 - v) How digitalis acts as cardio tonic?
 - vi) Define atrial fibrillation (AF) and atrial flutter (AFI)
- B)** Explain vasomotor reversal of Dale. (03)
- Q.2 a)** Define and classify analgesics. Discuss in brief pharmacology of paracetamol. (07)
- b)** Define synergism. Discuss synergism with suitable examples. (05)
- Q.3 a)** Classify adrenergic drugs. Discuss the pharmacological actions and therapeutic uses of the same. (07)
- b)** Discuss in detail pharmacology of drugs used in Parkinsonism. (05)
- Q.4** Write short notes on any **THREE** of the following: (12)
- a) Nitrates
 - b) Statins
 - c) General anaesthetics
 - d) Treatment of Congestive Heart Failure (CHF)

SECTION-II

- Q.5 A)** Answer any **FOUR** of the following: (08)
- i) Define mucolytics. Give two examples.
 - ii) What is hypoglycemic coma?
 - iii) Classify antithyroid drugs and give two examples of each class.
 - iv) Differentiate between type I and type II diabetes mellitus.
 - v) Write in brief synthesis of thyroid hormones.
 - vi) Classify local anaesthetics with examples.
- B)** Write in short about mast cell stabilizers. (03)

P.T.O.

Q.6 Explain in detail pharmacotherapy of bronchial asthma. (12)

Q.7 a) Describe the pharmacology of insulin. (07)

b) Write in short about sulfonylureas. (05)

Q.8 Write short notes on any **THREE** of the following: (12)

- a)** 5- HT
- b)** Methyl xanthines as bronchodilators
- c)** Ethyl alcohol
- d)** Estrogen

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MANIKGAD-II : SUMMER- 2017
SUBJECT : COMMUNITY PHARMACY

Day : Tuesday
Date : 18/04/2017

Time : 10.00 A.M. TO 01.00 P.M.
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.

SECTION-I

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

- a) Write about legal requirements and licenses required to open new community pharmacy in India.
- b) Discuss parts of prescription according to pharmacy practice regulation 2015.
- c) Explain concept of lead time and safety stock inventory management.
- d) Differentiate between patient instructions and patient counseling with suitable example.
- e) Write merits of promoting medication adherence.

B) Write note on stock related documents that are maintained in community pharmacy. (03)

Q.2 Discuss planning, strategies and limitations open a new community pharmacy in urban area. (12)

Q.3 a) Discuss the role of computing technology in business development and business management in community pharmacy. (06)

b) Write medication errors related to prescription writing. (06)

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

- a) Patient counseling aids
- b) Community pharmacy and clinical pharmacy
- c) Pharmaceutical care
- d) One typical example of patient counseling.

P.T.O.

SECTION-II

- Q.5 A)** Answer any **FOUR** of the following: (08)
- a) Write significance of cholesterol testing.
 - b) Write precautions while taking OTC-pain killer medicines.
 - c) Write patient counseling points related to OTC-antacid medicines.
 - d) Write causative agent for typhoid and preventive methods for spread of typhoid.
 - e) Write non-pharmacological means and common drug therapy to worms infestations.
- B)** Write clinical aspect of AIDS. (03)
- Q.6** Discuss code of ethics and unethical practices for community pharmacist with special reference to pharmacy practice regulation 2015. (12)
- Q.7 a)** Write pathophysiology and common drug therapy to constipation and diarrhea. (06)
- b)** Discuss importance and approaches for health promotion. (06)
- Q.8** Write short notes on any **THREE** of the following: (12)
- a) Essential drug list
 - b) Lung function testing
 - c) Geriatric care
 - d) Syphilis.

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MANIKGAD – II: SUMMER- 2017
SUBJECT : PHARMACOTHERAPEUTICS - I

Day : Thursday
Date : 20/04/2017

Time : 10.00 A.M. TO 01.00 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 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) Differentiate between angina pectoris and Myocardial Infraction.
 - ii) List out the clinical manifestations of Glaucoma.
 - iii) Define CCF.
 - iv) Explain Emphysema.
 - v) Mention the indications for PFT.
 - vi) Classification of Drug Induced Lung Diseases with examples.
- B) Provide the goals of therapy in COPD and enlist its complications. (03)**
- Q. 2 Define and classify angina. Discuss pharmacotherapy of angina. (12)**
- Q. 3 a) Discuss the pharmacotherapy of hyperlipidaemia. (07)**
- b) Discuss the management of viral Conjunctivitis. (05)**
- Q. 4 Write short notes on ANY THREE of the following: (12)**
- a) Pharmacotherapy of Myocardial infraction.
 - b) ACE inhibitor induced cough.
 - c) Leukotriene Modifiers
 - d) Antiarrhythmic Drugs.

P. T. O.

SECTION - II

- Q. 5 A)** Answer **ANY FOUR** of the following: **(08)**
- i) What is thyrotoxicosis? Enlist the diseases occurring due to thyrotoxicosis.
 - ii) Discuss the difference between type 1 and type 2 Diabetes Mellitus.
 - iii) List out any four drugs contraindicated in pregnancy.
 - iv) Discuss the medication errors in pediatrics.
 - v) Classify antithyroid drugs with suitable examples.
 - Vi) Enlist common clinical disorders in geriatrics.
- B)** Discuss the pharmacokinetics alterations in Geriatrics **(03)**
- Q. 6** Discuss in detail pharmacotherapy of Diabetes Mellitus. **(12)**
- Q. 7 a)** Discuss the general prescribing guidelines for pregnancy and breast feeding. **(07)**
- b)** Discuss the pharmacotherapy of osteoporosis. **(05)**
- Q. 8** Write short notes on **ANY THREE** of the following: **(12)**
- a) Rational drug formulations.
 - b) Teratogenicity.
 - c) Hypothyroidism.
 - d) Oral Contraceptives.

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