

Code No. 2.1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm D Second Year End Examinations, June – 2013

Pathophysiology

Time: 3 hours

Max.Marks:70

Answer any five questions

All questions carry equal marks

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

1. Discuss morphology of irreversible cell injury. [14]
2. Discuss
  - a) Role of fat soluble vitamins in the health.
  - b) Pathogenesis of starvation.[7+7]
3. Explain the vascular and cellular events in the process of inflammation. [14]
4. Explain in detail:
  - a) Life cycle of HIV
  - b) Shock and its management.[7+7]
5. Write about
  - a) Oncogenes
  - b) Tumor suppressor genes.[7+7]
6. Write the pathophysiology of
  - a) Parkinsonism
  - b) Atherosclerosis.[7+7]
- 7.a) Discuss in detail the production and functions of T and B cells.  
b) Write a note on transplantation antigens. [7+7]
8. Discuss in detail about
  - a) Urinary tract infections
  - b) Typhoid.[7+7]

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Pharm D SECOND YEAR SUPPLEMENTARY EXAMINATIONS**  
**FEBRUARY/MARCH-2013**  
**PHARMACEUTICAL MICROBIOLOGY**

Time: 3hours

Max.Marks:70

Answer any five questions  
All questions carry equal marks

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) What are the basic nutritional requirements for the growth of microorganisms? [14]  
b) Write about growth and cultivation of virus.
- 2.a) Write in detail about different methods used in isolation and identification of bacteria.  
b) Give an account on different staining techniques for identification of bacteria. [14]
- 3.a) Explain different methods of sterilization including their merits and demerits. [14]  
b) Write about sterility testing of different pharmaceutical preparations.
- 4.a) Explain the factors affecting the activation and mechanism of action of  
i) Fungicidal agents ii) Virucidal agents [14]  
b) Write brief account on evaluation of bactericidals and bacteristatics.
- 5.a) Define and classify immunity and write general principles of natural immunity. [14]  
b) Write in detail about various antigen-antibody reactions.
6. What are the diagnostic tests? Write the principle and method involved in following tests. [14]  
a) Shick's  
b) Southern blot blot  
c) Mantoux peripheral smear.
- 7.a) What is microbiological assay? Write the principle and method of microbiological assay of Penicillin. [14]  
b) Write a note on standardization of vaccines.
8. Write a brief note on following diseases. [14]  
a) Typhoid b) Syphilis and Gonorrhea c) Malaria.

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Pharm D SECOND YEAR SUPPLEMENTARY EXAMINATIONS**  
**FEBRUARY/MARCH-2013**

**PHARMACOGNOSY & PHYTOPHARMACEUTICALS**

Time: 3 hours

Max.Marks:70

Answer any five questions

All questions carry equal marks

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) Write a note on history of Pharmacognosy.
- b) Define crude drug. Give the classification of Crude drug based on the nature of Crude drug. [7+7]
- 2.a) Write a note on storage of crude drugs.
- b) Mention the advantages and disadvantages of cultivation of medicinal plants by seed propagation. [7+7]
- 3.a) Explain the various steps subsequent to collection of medicinal plants. [7+7]
- b) Give advantages of cultivation of Crude drug.
- 4.a) Give the different methods of crude drugs classification and discuss pharmacological classification. [7+7]
- b) Explain the role of polyploidy in cultivation of medicinal plants.
- 5.a) What do you understand about secondary metabolites or non-living cell inclusions?
- b) Explain the transverse section of Senna leaf with various microchemical tests. [7+7]
- 6.a) Give the biological source, chemical constituents and uses of any two natural pesticides.
- b) Discuss the chemistry of carbohydrates and write the identification tests for Agar and Acacia. [7+7]
- 7.a) Define and classify the proteins and write an explanatory note on chemistry of proteins.
- b) Mention one example for each of fat, drying oil, non-drying oil and semi-drying oil obtained from vegetable sources and write their biological source and uses. [7+7]
- 8.a) Write the source and method of preparation for cotton and jute.
- b) Discuss various types of adulteration occurs in crude drugs. [7+7]

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Code No. 2.3

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Pharm D Second Year End Examinations, June-2013**  
**Pharmacognosy and Phytopharmaceuticals**

Time: 3 hours

Max.Marks:70

**Answer any five questions**  
**All questions carry equal marks**

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) Give an account of history, development and scope of pharmacognosy.  
b) Define crude drug. Explain morphological classification of Crude drug with advantage and disadvantages. [7+7]
- 2.a) Explain various factors influencing cultivation of crude drugs.  
b) Describe the effect of season and time of collection of plant on quality of active constituents with example. [7+7]
- 3.a) Discuss in detail asexual propagation.  
b) Write a note on ergastic cell contents. [7+7]
- 4.a) Explain the transverse section of Digitalis leaf with various microchemical tests.  
b) What are the growth regulators? Classify and explain its applications. [7+7]
- 5.a) Give biological source, chemical constituents and uses of Neem and Pyrethrum.  
b) Explain the transverse section of Senna leaf with various microchemical tests. [7+7]
- 6.a) Give the biological source, chemical constituents and uses of any two natural pesticides.  
b) Discuss the chemistry of carbohydrates and write the source, chemical constituents and uses of Indian Psyllium. [7+7]
- 7.a) Give any seven analytical parameters for detection of oils and fats  
b) Give biological source, method of preparation, chemical constituents and uses of castor oil. [7+7]
- 8.a) Define and classify proteins. Differentiate between silk and Nylon.  
b) Discuss in detail different types of adulteration techniques. [7+7]

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Code No. 2.4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm D Second Year End Examinations, June-2013

Pharmacology-I

Time: 3 hours

Max.Marks:70

Answer any five questions  
All questions carry equal marks

More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)

1. Define pharmacokinetics and pharmacodynamics. Write in detail about drug toxicities and drug interactions. [14]
2. Write a short note on:  
a) Mydriatics  
b)  $\beta$ -blockers. [7+7]
3. Classify antiarrhythmics and hypolipidaemic drugs. Discuss the mechanism of action, therapeutic uses and adverse effects of each class of drugs. [14]
4. Classify NSAIDs and discuss their mechanism of action, therapeutic uses and adverse effects. Add a note on therapeutic uses of local anesthetics. [14]
5. What are mucolytics, expectorants and antitussives, give examples. Discuss the mechanism of action of various drugs used in bronchial asthma. [14]
6. Discuss the synthesis and physiological role of insulin. Write the mechanism of action of oral hypoglycemic drugs. [14]
7. Write in detail about 5-HT receptors, their agonists and antagonists. [14]
8. Write the mechanism of action, therapeutic uses and adverse effects of  
a) Diazepam  
b) Cardiac glycosides. [7+7]

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Pharm D SECOND YEAR SUPPLEMENTARY EXAMINATIONS**  
**FEBRUARY/MARCH-2013**  
**COMMUNITY PHARMACY**

**Time: 3hours**

**Max.Marks:70**

**Answer any five questions**  
**All questions carry equal marks**

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) Explain the role and responsibility of community pharmacist. [14]  
b) Write the role of computers in community pharmacy management.
- 2.a) Write the parts of prescription. Explain them in brief. [14]  
b) Describe the inventory control methods like ABC, Lead time and VED.
3. Give the causative agent, clinical presentation and treatment of  
a) Tuberculosis  
b) Syphilis [14]  
c) Amoebiasis.
4. Explain the pathophysiology and common drug therapy of  
a) Ophthalmic symptoms [14]  
b) Worm infestations.
- 5.a) Define health screening methods. Write the methods of screening of Blood pressure and Lung function. [14]  
b) Describe the principles of Pharmaceutical care.
- 6.a) Design and layout the Patient information leaflet and write its contents. [14]  
b) Define OTC medication. Write a short note on OTC medication list.
- 7.a) Explain the concept of Essential drugs and Rational drug therapy. [14]  
b) Write the role of pharmacist in family planning.
8. Write the code of Ethics for community pharmacist. [14]

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Code No. 2.5

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**Pharm D Second Year End Examinations, June-2013**  
**Community Pharmacy**

**Time: 3hours**

**Max.Marks:70**

**Answer any five questions**  
**All questions carry equal marks**

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) Define Balanced Diet. Explain the treatment and prevention of Defeciency disorders.  
b) Define and explain the pharmacist in improving patient medication adherence. [14]
2. Write in detail the selection of site, space layout, design, legal and staff requirements in setting up community pharmacy. [14]
- 3.a) Explain the factors affecting Patient medication adherence.  
b) Define patient counseling. Write barriers and strategies to overcome berriers in patient counseling. [14]
- 4.a) Define drug interactions. Write the role of pharmacist in identifying and preventing drug interactions in prescription.  
b) Define and write the scope of community pharmacy. [14]
5. Write the causative agent, clinical presentation and prevention of  
a) Leprosy  
b) AIDS  
c) Hepatitis. [14]
6. Explain the Pathophysiology and common drug therapy of  
a) Pain  
b) Diarrhea. [14]
- 7.a) Explain in detail the various methods of Inventory control.  
b) Write the role of Pharmacist in Rational drug therapy. [14]
8. Explain the methods of screening and importance of  
a) Blood sugar  
b) Cholesterol testing  
c) Blood pressure  
d) Lung function. [14]

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Code No. 2.6

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**Pharm D Second Year End Examinations, June-2013**

**Pharmacotherapeutics-I**

**Time: 3hours**

**Max.Marks:70**

**Answer any five questions**

**All questions carry equal marks**

**More Job Updates Follow at [www.pharmawisdom.blogspot.com](http://www.pharmawisdom.blogspot.com)**

- 1.a) Explain in detail about the drugs used in the treatment of Hypertension.
- b) Write a note on cardiac glycosides. Explain their adverse drug reactions. [7+7]
- 2.a) Differentiate between Hyperlipidaemia and Dyslipidaemia.
- b) Explain the drugs used in the treatment of Hyperlipidaemia with ADRs. [4+10]
- 3.a) Define Tidal volume, Vital capacity, Anatomical dead space, Forced inspiratory volume.
- b) Write a note on drugs induced pulmonary diseases. [4+10]
4. Explain etiopathogenesis and treatment of Diabetes Mellitus. [14]
5. Explain general prescribing guidelines for Geriatrics and Pregnant women. [14]
- 6.a) Differentiate Between Open and Closed angle Glaucoma.
- b) Explain the etiopathogenesis of Glaucoma.
- c) Write the pharmacotherapy of Glaucoma. [2+6+6]
7. Define Rational Drug Use. Explain Essential drug concepts in detail. [14]
- 8.a) Explain in detail about the chemical methods of contraception.
- b) Write a note on HRT. [7+7]

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