Code No. 2.1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm D SECOND YEAR EXAMINATIONS

July-August, 2012 PATHOPHYSIOLOGY

Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

1.	What is inflammation? Discuss about the various mediators and events that of during inflammation.	(14)
		[1-1]
2.	Write a short note on role of T cells and B cells in immunity. Add a note on transplantation and allograft rejection.	[14]
3.	Define malignancy and metastasis. Classify tumors and discuss the general biology of tumors and spread of malignant tumors.	[14]
4.	Enumerate the different types of shock. Write in detail about causes and mechanisms involved in shock due to acute blood loss.	[14]
5.a) b)	Discuss the health hazards of air pollution and smoking. Write a note on role of obesity on overall health.	[14]
6.	Discuss the pathophysiological changes that occur during various cardiac diseases.	[14]
7.	Discuss the etiopathogenesis of hypertension and asthma.	[14]
8.	Write a short note on: a) Urinary tract infections	
	b) Hepatitis c) Schizophrenia.	[14]

July-August, 2012

PHARMACEUTICAL MICROBIOLOGY

Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

More Updates Follow at www.pharmawisdom.blogspot.com

Explain various applied areas of microbiology. Give a brief account on 1.a) importance of microorganisms in each of these applied fields.

Write a short note on types of media used in cultivation of microorganisms. [7+7] b)

Write about the classification of microorganisms on basis of nutritional 2.a) requirements.

Describe the structure and function of plasma membrane and mesosomes of b) bacteria. [7+7]

- Explain different methods used in isolation and identification of bacteria with 3. emphasis to different staining techniques and biochemical reactions. [14]
- What are disinfectants? Classify them. Give the mechanism of action and 4.a) practical applications of each class.
 - Explain general procedure in sterility testing of pharmaceutical preparation as per b) [7+7]LP.
- Differentiate the following 5.
 - Cellular immunity and Humoral immunity.
 - Active immunity and Passive immunity.

[7+7]

Explain the principle, procedure and uses of following diagnostic methods: 6. 6)

Southern blotting

Schick's test.

[7+7]

- What are microbiological assays? Write the principle for microbiological assay of 7.a) antibiotics. Explain in detail any one method used in assay of Penicillin as per I.P. [7+7]
 - Explain the Standardization of Vaccines and Sera. b)

Give an account of different forms of Hepatitis and its clinical symptoms. 8.a)

What is the causative microorganism of Gonorrhea? Write a note on its 6) pathogenicity, symptoms and treatment. of Pharman

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Code No. 2.2 Pharm D Second Year End Examinations, June - 2013

Pharmaceutical Microbiology Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

More Updates Follow at www.pharmawisdom.blogspot.com

What are the basic nutritional requirements for the growth of micro organisms? 1.a)

Write about growth and cultivation of bacteria. b)

Write in detail about different methods used in isolation and identification of 2.a) [14]

bacteria. Give an account on different biochemical reactions of bacteria. b)

Explain different methods of sterilization including their merits and demerits. 3.a)

[14] Write about sterility testing of different pharmaceutical preparations.

b) Explain the factors affecting the activation and mechanism of action of 4.a) ii) Antiseptics

Write brief account on evaluation of preservatives in pharmaceutical preparations.

b)

Define and classify immunity and write general principles of natural immunity. 5.a)

Write in detail various antigen-antibody reactions. b)

What are diagnostic tests? Write the principle and method involved in following 6. [14] iii) QBC. tests.

ii) Westren blot i) ELISA

What is microbiological assay? Write the principle and method of microbiological 7.a) assay of Streptomycin. [14]

Write a note on standardization of vaccines. b)

Write a brief note on following diseases: [14] iii) HIV. 8. ii) Hepatitis i) Tuberculosis

PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

More Updates Follow at www.pharmawisdom.blogspot.com

- Define the following
 - a) Compound Quills.
 - b) Parquetry arrangement
 - c) Trichomes
 - d) Disadvantages of pesticides.

[2+2+6+4]

- Write note on:
 - a) Morphological classification
 - b) Storage of crude drugs.

[7+7]

- Explain briefly the present status of pharmacognosy in the area of research.
 - b) Write the various methods used in detection of adulteration with examples? [6+8]
- Write about viscose rayon and differentiate from cotton.
 - Differentiate wool and silk with chemical tests.

[8+6]

- 5.a) Give the source, method of extraction, chemistry and method of analysis of lipids?
 - b) Define protein and write a note on collagen?

[10+4]

- 6. Give the biological source, family, chemical constituents and uses
 - a) Cinchona
- b) Liquorice
- c) Clove.

[4+4+6]

- Write the diagnostic characters and chemical tests for:
 - a) Nux vomica
- b) Cinnamon
- c) Quassia.

[5+5+4]

- 8.a) Give the method of preparation of any four starches?
 - b) Distinguish acacia from tragacanth.

[10+4]

Code No. 2,4

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

Pharm D SECOND YEAR EXAMINATIONS July-August, 2012 PHARMACOLOGY-I

Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

More Updates Follow at www.pharmawisdom.blogspot.com

- What are different types of routes of administration and discuss their advantages 1.a) & disadvantages?
 - What is drug interaction and discuss different kinds of Pharmacokinetic drug (d) Interactions with examples? [7+7]
- Classify Parasympathomimetics and write the pharmacological actions of 2.a) acetylcholine.
 - Add a short note on neuromuscular blockers. b)
 - Explain how anti cholinesterases are useful in the management of c) myastheniagravis. [7+3+4]
- Classify antianginal drugs and write the pharmacology of organic nitrates. 3.a)
- Classify antihyperlipidemic drugs and discuss the pharmacology of statins. [7+7] b)
- Classify antipsychotic drugs and write the pharmacology of chlorpromazine. 4.a)
 - Classify antiepileptics and discuss the mechanism of action of phenytoin and b) carbamazepine.
 - [6+5+3] Write the mechanism of action of benzodiazepines. c)
- Classify NSAIDs and write about the pharmacology and adverse reactions of 5.a) aspirin. [10+4]
- Write a short note on antidepressants. b)
- Classify antiasthmatic drugs and add a note on bronchodilators. 6.a)
- Write a note on expectorants.
- Explain how the adrenergic drugs are used as nasal decongestants. b) 16+5+31 c)
- Discuss the drugs used in the management of thyroid storm. 7.a)
 - Add a short note on insulin.
 - [6+4+4] Discuss the mechanisms of oral contraceptives. b) c)
- Classify H₁ receptor antagonists and discuss their therapeutic uses. Explain the importance of 5HT agonists in the management of depression & 8.a) b)
 - migraine. Add a short note on leukotrienes.

[5+5+4]

c)

July-August, 2012 COMMUNITY PHARMACY

Time: 3hours

Discuss about

a)

b)

Study of prescription

Opthalmic disorder care.

8.

Max.Marks:70

[14]

Answer any five questions All questions carry equal marks

	All questions carry equal marks	
1.	More Updates Follow at www.pharmawisdom.blogspot.com Discuss in detail about the responsibilities of a community pharmacist.	(1.41
		[14]
2.	What is medication adherence? What is its importance? How it is assessed?	[14]
3.	What is a balanced diet? Explain about vitamin deficiency disorders and prevention.	their [14]
4.	Discuss about the pathophysiology and drugs used for pain and fever.	[14]
5.	Write about the following a) Concept of essential drugs b) Rational use of injections.	[14]
6.	Explain the following a) Techniques of patient counselling b) Role of pharmacist in family planning.	[14]
7.	Write about a) Symptoms and prevention of tuberculosis b) Neonatal care.	[14]

July-August, 2012 PHARMACOTERAPEUTICS - I

Time: 3hours

Max.Marks:70

Answer any five questions All questions carry equal marks

More Updates Follow at www.pharmawisdom.blogspot.com

- What essential hypertension and how is it different from secondary hypertension?

 Discuss the pathophysiology and clinical management of hypertension. Add a note on hypertensive crisis.

 [14]
- Write in detail about various drugs that induce pulmonary diseases. Add a note on pulmonary function tests and treatment of status asthmaticus. [14]
- Describe the etiopathology, symptoms and treatment of hypothyroidism. [14]
- What are the prescription guidelines to be followed in geriatrics and during pregnancy and lactation? Write in detail with suitable examples. [14]
- 5. What is glaucoma? Discuss the pathogenesis and treatment of glaucoma. [14]
- What do you understand about essential drugs and rational drug use? Discuss the role of a pharmacist in the same. [14]
- What is congestive heart failure? Write in detail about pathophysiology and therapy of CHF. [14]
- 8. Write a short note on
 - a) Myocardial infarction and its treatment
 - b) Hormone replacement therapy.

[14]