



ANJUMAN-I-ISLAM'S

**AKTC KALSEKAR TECHNICAL CAMPUS**

INNOVATIVE TEACHING · EXUBERANT LEARNING

School of Architecture

School of Engineering &amp; Technology

School of Pharmacy

**Knowledge Resource & Relay Centre (KRRC)**

AIKTC/KRRC/SoP/ACKN/QUES/2015-16/

Date: 06/04/2016School: SoP-CBSGSBranch: SoPSEM: VII

To,  
Exam Controller,  
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following ~~Semester~~/Periodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	Pharmaceutical Chemistry – III			✓	01
2	Pharmaceutical Analysis – III			✓	01
3	Pharmacology – III			✓	01 + Reperiodic ①
4	Pharmaceutics – IV			✓	01
5	Pharmacognosy & Phytochemistry – II			✓	01 + Reperiodic ①
6	Pharmaceutical Jurisprudence / forensic pharmacy			✓	01 + Reperiodic ①

Note: SC – Softcopy, HC - Hardcopy

(Shaheen Ansari)  
Librarian, AIKTC



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Fr. Y. B. Pharm. (Semester -VII)

Periodic Theory Examination, 2015 (CBSGS)

Subject: P'ceutical Chemistry-III

Date: 7.9.15

Time: - 11.00pm -12.00pm

Total Marks: 15M

- Q1. Draw neat structure and therapeutic use of following (Any 3) 3M  
I) 1,4-dihydro-2,6-dimethyl-4-(2-nitrophenyl)-3,5-pyridinedicarboxylated dimethyl ester  
ii) 2',3'-dideoxy-2',3'-dideoxythymidine  
iii) Alkylating anticancer causing nephrotoxicity  
iv) Neuroaminidase inhibitors  
v) Digitoxose containing cardiac glycoside
- Q2. Justify Cardiotoxicity occurs in cancer patients administering antibiotics. 2M  
OR  
Justify Nephrotoxicity of organoplatinum complexes is treated with sodium thiosulphate.
- Q3. Give an account on bonding interaction of Imatinib OR Methotrexate with the receptor. 2M
- Q4. Give the systematic synthesis of any 2 with reactants and reaction conditions for each step 4M  
I) Azidothymidine ii) Chlorombucil iii) Amantadine iv) Methotrexate
- Q5. Comment on SAR of cardiac glycoside. 2M  
OR  
Comment on SAR of daunorubicin in cancer therapy.
- Q6. Explain mechanism of action of calcium channel blockers. 2M  
OR  
Explain mechanism of action of Acyclovir

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**Final. Y. B. Pharm. (Semester -VII) CBSGS  
Periodic Theory Examination**

Subject: Pharm Analysis III  
Marks: 15

Date:- 25-08-15  
Time:- 11.00am-12.00pm

**Questions**

1. **A) Define the following term (any TWO)** **2 Marks**  
i) Capacity Factor    ii) Coupling constant    iii) Destructive Detecting Agents

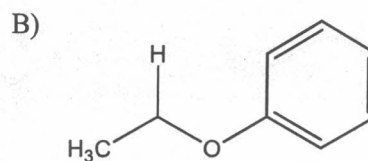
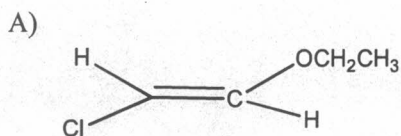
**B) Justify your answer with proper examples** **3 Marks**

- i) Analyte of interest in an Polar compound. Select a suitable phase for separation and justify it.
- ii) Flame ionisation detector is an ideal detector for Inorganic compound in GC chromatography?
- iii) KCl can be used as an agent for elution in Anion exchange chromatography in separation of proteins ?

2. **A) Explain in detail (any Two)** **3 Marks**

- i) Different mode of Elution techniques used in HPLC, explain in detail Rheodyne injector with proper diagram?
- ii) Different types of detectors used in Gas Chromatography and explain in detail about detector used for Halides compounds ?
- iii) Explain any ONE bulk property detector for HPLC with diagram?

**(B) Depict Signals, Peaks and Spin-Spin splitting of H-NMR for the following:-** **2 Marks**



3. **A) Explain in detail about (any Two)** **3 Marks**

- i) Classify chromatography system schematically. Explain in detail about FOUR factors affecting resolution of TLC
- ii) Give eight advantages and one disadvantage of HPTLC over TLC.
- iii) Enlist different pumps used in HPLC. Describe any two pumps in details with diagram

**B) Do as directed** **2 Marks**

- i) Draw a block diagram depicting the instrumentation for HPLC.
- ii) Two solvent system used in H-NMR



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**(Revised Syllabus)  
Final Y. B. Pharm. (Semester –VII)  
Reperiodic Theory Examination (2015 – 2016)**

**Subject: Pharmacognosy III**

**Date: - 25/08/ 2015**

**Marks: 10 M**

**Time: -11.00 a.m -12.00 p.m**

**Note - All questions are compulsory  
Draw structures wherever necessary**

- Q. 1 Give biogenetic pathway for **Quinine** 2 M
- Q. 2 Discuss in detail the complete pharmacognosy of **Vasaka or Rauwolfia** 3 M
- Q. 3 Write short note on [Any One] 1 M
- a. Life cycle of **Ergot**
- b. Tea
- Q. 4 Give biological source, chemical constituents and uses of Any two drug 4 M
- a. Ephedra
- b. Ipecac
- c. Vinca
- d. Ashwagandha





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FINAL. Y. B. Pharm. (Semester -VII)  
Periodic Test Theory Examination (2015-16)

CBSSGS

Subject: Pharmacology III  
Marks: 15 M

Date: 26/08/15  
Time: - 11: 00- 12: 00 pm

Q1. Answer any two

[4]

- Justify the combination of L dopa with carbidopa in the treatment of Parkinsonism.
- Give Mechanism of action of Phenytoin
- Explain various plains of surgical anesthesia

Q2. Answer Any two

[8]

- Write a short note on preanesthetic medications
- Discuss Pharmacotherapy of alzheimer disease.
- Discuss MOA and Pharmacological action of Benzodiazepines

Q.3 Write a short note on Any one

[3]

- SSRI
- Adverse effects of chlorpromazin







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**FINAL. Y. B. Pharm. (Semester -VII)  
RE-Periodic Test Theory Examination (2015-16)**

**Subject:** Pharmacology III  
**Marks:** 15 M

**Date:**  
**Time:** - 1: 00- 2: 00 pm

**Q1. Answer any two [4]**

- Enumerate therapeutic uses of Benzodiazepine.
- Describe various types of epileptic seizures.
- Define sedative and hypnotics with one example of each.

**Q2. Answer Any two [8]**

- Explain the stages of general anesthesia.
- Discuss the symptoms and treatment of methanol poisoning.
- Explain Pharmacology and adverse effects of L-dopa.

**Q.3 Write a short note on Any one [3]**

- MAOI in a treatment of Parkinsonism
- Phenytoin





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**S. Y. B. Pharm. (Semester –VII)  
Periodic Theory Examination (2014 – 2015)**

CBSEGS

Subject: Pharmaceutics IV  
Marks: 15 M

Date: - 27/08/2015  
Time: - 11:00-12:00

- Note: 1) All questions are compulsory  
2) Draw neat labelled diagram wherever necessary**

Questions	Marks
Q. 1. a) Give an account on vehicles used in sterile preparations	3 MKS
<b>OR</b>	
a) What are pyrogens. Discuss methods of depyrogenation	3 MKS
b) Write a note on corneal bioavailability	2 MKS
Q.2. a) Write a note on glass as material for containers	2 MKS
b) What is BFS technique in ophthalmic preparation	1 MK
c) Write a note on evaluation of collapsible ointment tube	2 MKS
<b>OR</b>	
c) Give an account on quaternary ammonium compound as a preservative	2 MKS
Q. 3. a) Write notes on (Any 2)	4 MKS
i) Laminar flow environment	
ii) Suspensions as injections	
iii) Membrane filters	
b) Define clean room "Class 100"	1 MK





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**Final Y. B. Pharm. (Semester –VII)  
Periodic Theory Examination (2015 – 2016)**

**Subject: Pharmacognosy & Phytochemistry II**

**Date: - 28/08/ 2015**

**Marks: 15 M**

**Time: -11.00 a.m -12.00 p.m**

**Note - All questions are compulsory  
Draw structures wherever necessary**

- Q. 1 Give biogenetic pathway for **Quinine** 2 M
- Q. 2 Discuss in detail the complete pharmacognosy of *Cinchona* or *Nuxvomica* 4 M
- Q. 3 Write short note on [Any One] 2 M
- a. Life cycle of *Ergot*
- b. Curare
- Q. 4 Give a biogenesis pathway for tropane alkaloids and write biological source, chemical constituents and uses of any one drug containing tropane alkaloids. 4 M
- Q.5 Give biological source, chemical constituents and uses of Any two drugs 3M
- a. Cocoa
- b. Tea
- c. Ephedra
- d. Opium







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Final Y. B. Pharm. (Semester -VII)  
Re-Periodic Theory Examination (2015 - 2016)

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Subject: Pharmacognosy & Phytochemistry II

Date: - 11/09/ 2015

Marks: 15 M

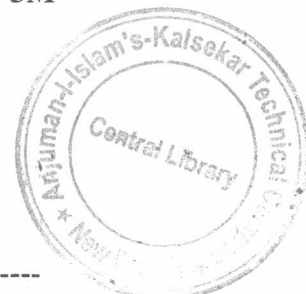
Time: -1.00 p.m -2.00 p.m

**Note - All questions are compulsory**  
**Draw structures wherever necessary**

- Q. 1 Give biogenetic pathway for *Emetine* 2 M
- Q. 2 Discuss in detail the complete pharmacognosy of *Ashwagandha* or *Ephedra* 4 M
- Q. 3 Write short note on [Any One] 2 M
- a. Pilocarpus
- b. Ipecac
- Q. 4 Give a general extraction process and chemical tests for alkaloids and write biological source, chemical constituents and uses of any one drug containing steroidal alkaloids. 4 M
- Q.5 Give biological source, chemical constituents and uses of Any two drugs 3M
- a. Coca
- b. Coffee
- c. Pepper
- d. Opium

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**FINAL Y. B. Pharm. (Semester –VII)  
Periodic Theory Examination (2015 – 2016)**

Subject: FORENSIC PHARMACY  
Marks: 15 M

Date: - 29/8/2015  
Time: - 11-12 A.M

Questions	Marks
<b>[Q.1] DEFINE: [ANY 4]</b> 1. Opium derivative 2. Invention 3. Displaced person 4. Coca leaf 5. Patent and proprietary medicine 6. New drug 7. Repacking of drugs	[4M]
<b>[Q.2] STATE THE SIGNIFICANCE OF FOLLOWING SCHEDULES: [ANY 4]</b> 1. Schedule H 2. Schedule W 3. Schedule FF 4. Schedule S 5. Schedule D 6. Schedule U	[2M]
<b>[Q.3] WRITE SHORT NOTES ON: [ANY 3]</b> 1. Functions of Central Drug Laboratory 2. Duties of drug inspector in relation to manufacture of drugs and cosmetics 3. Recommendations of Drug enquiry committee 4. Conditions of import license	[6M]
<b>[Q.4] ANSWER THE FOLLOWING:</b> 1. Preparation of first register of Pharmacist prepared in every state? Write qualification of registration 2. Define Intellectual property right? Enlist different forms of IPR.	[3M]





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**FINAL Y. B. Pharm. (Semester –VII)**

*Re* – **Periodic Theory Examination (2015 – 2016)**

**Subject: FORENSIC PHARMACY**  
**Marks: 15 M**

*CBSEAS*

**Date: - 12/9/2015**  
**Time: - 1-2 P.M**

Questions	Marks
<b>[Q.1] DEFINE: [ANY 2]</b> 1. Inventive step 2. Displaced person 3. First register	<b>[1M]</b>
<b>[Q.2] STATE THE SIGNIFICANCE OF FOLLOWING SCHEDULES:</b> <b>[ANY 4]</b> 1. Schedule G 2. Schedule T 3. Schedule F 4. Schedule Y 5. Schedule B 6. Schedule M	<b>[2M]</b>
<b>[Q.3] WRITE SHORT NOTES ON: [ANY 3]</b> 1. Duties of drug inspector in relation to sale of drugs and cosmetics 2. Terms of references of Chopra Committee 3. Conditions of import license 4. Types of manufacturing licences	<b>[6M]</b>
<b>[Q.4] ANSWER THE FOLLOWING:</b> 1. State the provisions under pharmacy act for removal of names from register 2. Write the procedure for the grant of patent.	<b>[4M]</b>
<b>[Q.5] DEFINE FOLLOWING TERMS:[ANY 3]</b> 1. Drug 2. Loan license 3. New drug	<b>[2M]</b>

