



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

AIKTC/KRRC/SoP/ACKN/QUES/2014-15/

Date: 23/09/2014

School: SoP-REV.

Branch: SoP

SEM: 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 & Med. Chem. – III			✓	01
2	Pharmaceutical Analysis – IV			✓	01
3	Pharmacognosy – III			✓	01
4	Biop.ceutics & Biop.cokinetics			✓	01
5	Pharmacology – IV			✓	01
6	Pharmaceutics – VI			✓	01

Note: SC – Softcopy, HC - Hardcopy

  
(Shaheen Ansari)  
Librarian, AIKTC



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**ANJUMAN-I-ISLAM'S**  
**KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**  
**School of Pharmacy**

Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi  
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai

**FINAL. Y. B. Pharm. (Semester -VII)**  
**Periodic Test Theory Examination (2014-15)**

**Subject:** Pharmacology IV  
**Marks:** 10 M

old  
BSG8  
12.30 - 01.30 PM  
PM  
Time: - :00- :00 am

**Q1. Answer any two**

- Explain various plains of surgical anesthesia [2M]
- Describe various type of epileptic seizures [2M]
- Discuss the endocrine disturbance produced by Chlorpromazein [2m]

**Q2. Discuss the factor affecting the action of inhalation anesthetics [3M]**

**OR**

**Q2. Explain MOA, Pharmacological action and adverse effect of chlorpromazine [3M]**

**Q3. Write a short note on (Any one) [3M]**

- SSRI
- Local Anesthetics



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

Old  
CBEGS  
2.00 pm - 3.00 pm

**Subject: Medicinal Chemistry-III**

**Date: - 09-09-2014**

**Marks: 10 Marks**

**Time: - 02.30 pm - 03.30 pm**

**QUESTIONS**

**MARKS**

**1.a) Write the Structure, Generic Name & Major Therapeutic use of**

**1 Mark**

- i) 2-[(4-tert-butyl-2,6-dimethylphenyl)methyl]-4,5-dihydro-1H-imidazole  
ii) (RS)-2-hydroxy-5-(1-hydroxy-2-(4-phenylbutan-2-yl)amino)ethylbenzamide

**b) Briefly mention the Metabolic Pathway of the following drugs**

**1 Marks**

- i) Propranolol (or) i) Reserpine

**c) Write the step wise synthesis of the following Drugs**

**2 Marks**

- i) Clonidine (or) i) Labetalol

**d) Explain in detail with structural examples of the following (Any TWO)**

**3 Marks**

i) Explain the development of  $\beta$ -blockers from dichloroisoproterenol and classify with atleast one example? Discuss the similarities between aryloxypropanolamine and aryloethanolamines?

ii) On replacement of ortho dichlorines in clonidine by methyl groups potency is retained but duration of action is shortened.

iii) Justify the following with proper examples

- a) Replacement of catechol ring by resorcinol imparts oral bioavailability  
b) Replacement of 3-OH groups  
c) Replacement of 4-OH into tert-butyl groups

**2.a) Outline the synthesis of Dicyclomine (or) Carbachol.**

**2 Marks**

**b) Justify Carbachol is more stable as compared to Methacholine.**

**1 Mark**

**(or) Homatropine contraindicated in glaucoma patients.**



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

Old

Subject: Pharmaceutical Analysis - IV  
Marks: 10 M

Date: - 10/09/2014  
Time: - ~~10:11 AM~~ 2 PM - 3 PM

Questions	Marks
Q.1 Explain the following terms a) Van Deemeter Equation b) Internal Standard c) Capacity Factor d) Resolution	04 Marks
Q.2 What is the Significance of Validating An Analytical method? Define Accuracy and Precision.	03 Marks
Q.3 What is Capacity Factor, Retention time and Adjusted Retention time? and add a note on HETP.	03 Marks

OR

Q.3 What do you mean by validation of analytical method? Define the following parameters a) Limit of Detection b) Robustness c) Accuracy	
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**Final . Y. B. Pharm. (Semester –VII)**  
**Periodic Theory Examination (2014 – 2015)**

Old

**Subject: Pharmacognosy III**

**Date: - 11/9/ 2014**

**Marks: 10 M**

**Time: -10.00 a.m -11.00 a.m**

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

- Q. 1 Give biogenetic pathway for **Emetin** 2 M
- Q. 2 Discuss in detail the complete pharmacognosy of **Cinchona or Nuxvomica** 3 M
- Q. 3 Write short note on [Any One] 1 M
- a. Life cycle of **Ergot**
- b. Papain
- Q. 4 Define Glycosides .Explain extraction, chemical test & classification along with physicochemical properties of glycosides. 3 M
- Q.5 Give chemical test for aloes. 1M
-



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

Qld

**Subject: Pharmaceutics VI  
Marks: 10 M**

**Date: - 12/9/14  
Time: - 10:00- 11:00**

- Q1. Discuss on de-pyrogenation of components of Parenteral products. 2
- Q2. Elaborate on Production facilities of a sterile manufacturing unit  
with emphasis on Environmental control. 4
- Q3. Write short notes on: ( Any 2) 4
1. Sterility testing
  2. Glass as containers for parenterals.
  3. Freeze drying process.



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**F. Y. B. Pharm. (Semester –VII)**  
**Periodic Theory Examination (2014-15)**

Old

**Subject: Biopharmaceutics & Pharmacokinetics**  
**Marks: 10 M**

**Date: - 12/09/14**  
**Time: -2:00-3:00 PM**

1. Write a short note on passive diffusion. [4M]

OR

1. Discuss influence of gastric emptying and gastric pH on drug absorption.

2. Comment briefly on any ONE of the following

A. Placental barrier is not as effective as the blood-brain barrier [2M]

B. Protein bound drug is pharmacokinetically inactive [2M]

3. List physicochemical factors that affect drug absorption, explain any two briefly

OR

3. Short note on barriers to drug distribution [4M]