



Symbol of Secularism  
& National Integration

**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 (2016-17)**

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

**Date:** 21/9/2016  
**Time:** - 12:00 to 1:00 pm

**Q1. Answer any two**

[4]

- Enlist any four treatment options for methanol poisoning.
- Differentiate between local and general anesthetics.
- Give mechanism of action of fluoxetine.

**Q2. Answer Any two**

[8]

- Explain the stages of general anesthesia.
- Define sedative & hypnotics with suitable example. Give mechanism of action and therapeutic uses of benzodiazepins.
- Explain pharmacological action and adverse effect of morphine.

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

[3]

- Classify antidepressants. Give therapeutic uses of antidepressants.
- Give mechanism of action and Pharmacology of Lithium.



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

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

Periodic Theory Examination, 2016 (CBSGS)

Subject: P'ceutical Chemistry-III -  
Time: - 12.00pm -1.00pm

Date:19.9.16  
Total Marks: 15M

**Q1. Answer the following (Any 3) 3M**

- Name the enzyme that is main target of cardiac glycosides.
- The reaction between methyl acetoacetate and o-nitrobenzaldehyde is first step of which drug.
- How is quinine and quinidine is related stereochemically?
- Name any drug that is used for treatment of breast cancer.

**Q2. Give drug combination used for antiviral therapy along with structure. 2M**

OR

Enalapril is prodrug. What is active form of the drug? (Draw structures involved) Which is the enzyme that it inhibits?

**Q3. List agents (with structures) that block de novo synthesis of DNA and explain their role in treatment of cancer. 3M**

OR

With regard to SAR of thiazide diuretics, state which statement is whether true or false. Correct those which are false.

- Electron releasing group at 6<sup>th</sup> position is necessary.
- Saturation of double bond at 3-4 position produces diuretic activity 10 fold more active than unsaturated
- Substitution with lipiphilic group at C-3, gives marked increase in potency.

**Q4. Outline synthesis of (Any 2) 3M**

- 1) Chlorombucil
- 2) Nifedipine
- 3) Furosemide
- 4) Amantadine

**Q5. Draw structure of following antiarrhythmic agents and state to which class they belong 2M**

- 1) 4-amino-N-[2-(diethylamino)ethyl]benzamide
- 2) 1-(1-methylethylamino)-3-(1-naphthyloxy)-propan-2-ol.

OR

Explain mechanism of action of Procarbazine.

**Q6. Justify Daunorubicin causes cardiotoxicity. 2M**



Symbol of Secularism  
& National Integration

**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. CBSGS (Semester –VII)**  
**Periodic theory Examination (2016 – 2017)**

**Subject: Pharmaceutics IV**  
**Marks: 15 M**

**Date: - 22/09/ 2016**  
**Time: -12.00 -1.00p.m**

Q.No.1. a) Write the advantages of LAL test compared to the Shams test. (2M)  
OR

Discuss various vehicles used in parenterals with their specifications.

b) Give Arrhenius equation. Write the steps for detection of shelf life based on Arrhenius equation. (3M)

Q. No. 2. a) Give an account on lyophilization. (2M)  
OR

Enlist quality control tests for plastic. Give an account on Water vapour permeability test

b) Write a note on hydrolytic degradation pathway for drug with the methods to enhance stability by overcoming the same. (3M)

Q. No. 3. a) Write a note on ICH guidelines (5M)

OR

a) Discuss formulation consideration for small volume parenterals.



Symbol of Secularism  
& National Integration

**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

**CBSGS**

**Final Y. B. Pharm. (Semester –VII)  
Periodic Theory Examination (2016 – 2017)**

**Subject: Pharmacognosy & Phytochemistry II**

**Date: - 23/09/ 2016**

**Marks: 15 M**

**Time: -12.00 p.m. - 1.00 p.m.**

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

**Q.1 Attempt Any Five**

- |  |     |
|--|-----|
| a) Give merits and Demerits of Natural Pesticides                                | 1 M |
| b) Write biological source and use of drug answering Van Erks test               | 1 M |
| c) Give biological source of anthraquinone glycoside obtained from Animal source | 1 M |
| d) Give biological source of oil used as cathartic and give its major fatty acid | 1 M |
| e) Give biological source and use of an alkaloid derived from Histidine          | 1 M |
| f) Discuss <i>Life cycle of Ergot</i>  | 1M  |

**Q. 2 Discuss in detail the complete pharmacognosy of *Aloes or Linseed* 4 M**

**Q. 3 Give biological source, chemical constituents, method of preparation and uses of  
Following Drugs 2 M**

- Olive
- Jojoba

**Q. 4 Give a biogenesis pathway for Quinine alkaloids and write biological source, chemical  
Constituents and uses of *Cinchona* 4 M**

**Or Give biogenesis of *Amygdaline* and write note on *Bitter almond***

