



ANJUMAN-ISLAM'S

AKTC KALSEKAR TECHNICAL CAMPUS

INNOVATIVE TEACHING · EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

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

Date: 06/04/2016

School: SoP-CBSGS

Branch: SoP

SEM: III

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	Organic Chemistry-I			✓	01
2	Biochemistry-II			✓	01
3	Dispensing Pharmacy			✓	01
4	Pharm. Engg.			✓	01
5	APP-III			✓	01
6	Pharm. Math.			✓	01

Note: SC – Softcopy, HC - Hardcopy

G. Ansari

(Shaheen Ansari)
Librarian, AIKTC



ANJUMAN-I-ISLAM'S
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S. Y. B. Pharm. (Semester -III)
Periodic Theory Examination (2015 - 2016)

Subject: Organic chemistry-I
Marks: 15 M

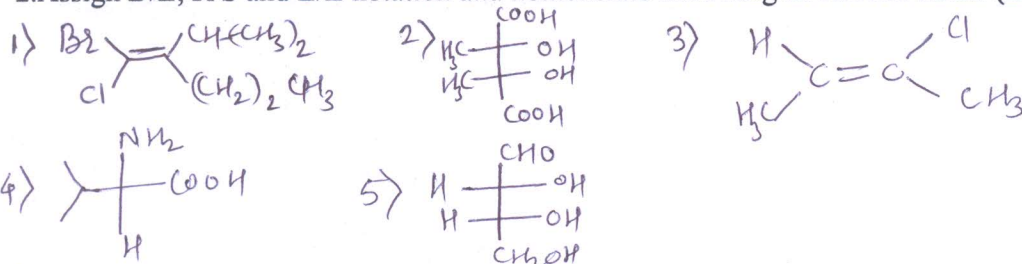
Date: - 07-09-2015
Time: - 11.00 am-12.00 pm

1. Define and explain Markovnikov rule and Anti-Markovnikov ? 3M

OR

1. Write a note on Dehydrohalogenation of alkyl halides?

2. Assign D/L, R/S and E/Z notation and nomenclate following as IUPAC rules. (any 2) 2M



3. Give suitable structures for the following. (any 2) 2M

i) 3,7-dimethyl-6-octen-1-ol

ii) 3-oxobutanoic acid

iii) 3,5-dimethylhexane-1,3,5-triol

iv) 2-methyl-4-nitro-2-pentanol

4. Draw possible resonating structures of following compounds (Any 2) 2M

i) Benzaldehyde,

ii) aniline,

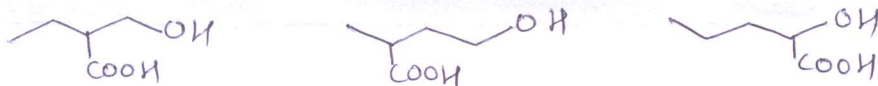
iii) Phenol,

iv) Anisole

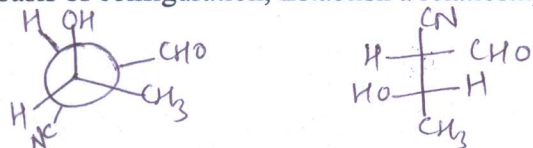
5. Rank the order of basicity for following organic compounds and justify OR 2M



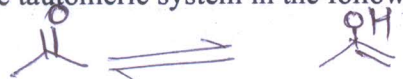
Rank the order of acidity for following organic compounds and justify



6. On the basis of configuration, Establish a relationship between following pair of molecules OR



Identify the tautomeric system in the following pair of molecules. 1M



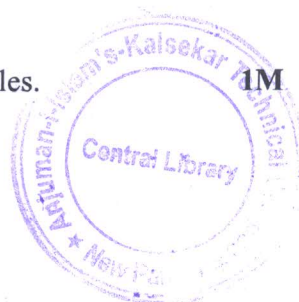
8. Differentiate between SN1 and SN2

OR

3M

Complete the following table

Reaction	Ideal solvent	Type of solvent	Type of substrate
SN1			
SN2			





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**S. Y. B. Pharm. (Semester –III)
Periodic Theory Examination (2015 – 2016)**

Subject: Biochemistry-II
Marks: 15 M

Date: - 08-09-2015
Time: - 11.00 am-12.00 pm

Answer the following questions

1. Draw the structure of purines. [2M]
2. Give the name and structures of the substrate and product of the following enzyme reactions.
(any 2) [4M]
 - GAR transformylase
 - FGAM cyclase
 - Guanine deaminase
 - B-ureidopropionase
3. Write the structure of the given substrate and product and name the enzyme catalysing the reaction. (any 2) [4M]
 - Formylglycinamide ribonucleotide (FGAR) to formylglycinamide ribonucleotide (FGAM)
 - N-formylaminoimidazole-4-carboxamide ribonucleotide (FAICAR) to Inosinate (IMP)
 - Xanthine to uric acid
 - Thymine to dihydrothymine
4. Differentiate between prokaryotic and eukaryotic replication ? [2M]
5. Mention any three drugs which inhibits the polymerase in disease state? [3M]



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**S. Y. B. Pharm. CBSGS (Semester -III)
Periodic theory Examination (2015 - 2016)**

**Subject: Dispensing pharmacy
Marks: 15 M**

**Date: - 09/09/ 2014
Time: -12.00 -1.00p.m**

- Q. No. 1. a) Give the following conversions (2M)
- 1/2 floz =----- mins.
 - 4 tablespoonful=-----ml.
 - 1 gallon=-----ml.
 - 500mg =----- grains.
- b) Discuss the factors affecting dose of pharmaceutical products during compounding. (2M)
- c) Define: i) creams ii) poultice (1M)
- Q. No. 2. a) Answer in brief (Any ONE) (2M)
- State role of diffusible solids in the suspensions containing oils for inhalations.
 - Enlist the possible causes of formation of improper primary emulsion by dry gum method.
- b) Define prescription with an example.
OR
- b) Write a note on prescription pricing. (2M)
- c) Differentiate between o/w and w/o type of emulsions. (1M)
- Q. No. 3. a) Give auxiliary conditions for the following preparations (Any four) (2M)
- Linctus
 - Ointment
 - Elixir
 - Suppositories
 - Emulsions
- b) Write a short note on (any one) (2M)
- Douches
 - Mouthwash
- c) What are indiffusible solids? Explain with the help of examples. (1M)





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**S. Y. B. Pharm. (Semester ~~III~~ III) CBSGS
Periodic Theory Examination (2013 - 2014)**

Subject: Pharmaceutical Engineering

Date: - 10/9/2015

Marks: 15 Marks

Time: - 1 hour

Q1. State Bernoulli's theorem. Explain Turbulent and laminar flow. **4M**

Q2. Draw neat labeled diagram of following (any 2) **4M**
a) Venturimeter
b) Reciprocating pumps
c) Tubular Heat exchanger
d) Bourdon gauge

Q3. Classify pumps. Write a note on Rotary pump. **(1+3)M**

Q4. Explain conduction of heat through series of conductors. **3M**

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F. Y. B. Pharm. (Semester –III)
Periodic Theory Examination (2015 – 2016)

Subject: APP-III
Marks: 15

Date: - 11-9-2015
Time: - 11.00am – 12.00pm

Q.1 Describe Cardiac cycle in detail. [3M]

OR

Q.1 Draw neat and labeled diagram of heart. Distinguish between arteries and veins. [3M]

Q.2 Explain conduction system of heart with diagram. [3M]

Q.3 Write a note on hormonal regulation of blood pressure. [3M]

Q.4 Discuss absorption and secretion in proximal convoluted tubule and distal convoluted tubule.
[3M]

Q.5 Discuss pathophysiology of [3M]

a. Renal calculi

b. Congestive heart failure





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PERIODICAL THEORY EXAMINATION

Date : 12/09/2015

Marks: 15

Pharm-Math- Sem-III

Q:1) Attempt any three.

9 marks

1) Find inverse of $A = \begin{bmatrix} 2 & -1 & 3 \\ 1 & 1 & 1 \\ 1 & -1 & 1 \end{bmatrix}$ by adjoint method.

2) Find the eigenvalues of

$$A = \begin{bmatrix} 3 & -1 & 1 \\ -1 & 5 & -1 \\ 1 & -1 & 3 \end{bmatrix}$$

3) Solve by Cramers rule

$$x+y+z=0, \quad 2x+3y-z=-5, \quad x-y+z=4.$$

4) Evaluate

$$\int_1^5 (x^3 + 4) dx \quad \text{by Simpsons } \frac{1}{3} \text{rd rule.}$$

Q:2) Attempt any two.

6 marks

1) Solve $\begin{vmatrix} 1 & -6 & -x \\ 2 & -3 & x-3 \\ -3 & 2 & x+2 \end{vmatrix} = 0.$

2) Find rank of $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}.$

3) Given

x	5	10	15	20
F(x)	8	34	44	64

Estimate $f(12)$ by Newtons forward difference interpolation formula.

