



ANJUMAN-I-ISLAM'S

AIKTC 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: IV

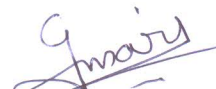
To,
Exam Controller,
AIKTC, New Panvel.

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 Chem.-II			✓	01
2	Pharm. Analysis-I			✓	01
3	Pharmaceutics-II			✓	01
4	Microbiology			✓	01
5	Pharmacology-I			✓	01
6	Math. & Statistics			✓	01

Note: SC – Softcopy, HC - Hardcopy


(Shaheen Ansari)
Librarian, AIKTC



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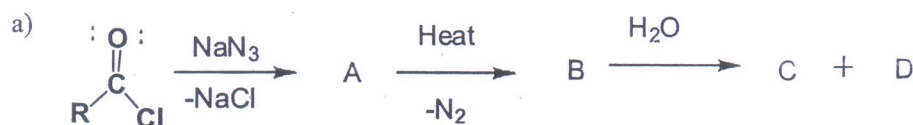
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai

S. Y. B. Pharm. (Semester -IV) CBSGS
Periodic Theory Examination (2016)

Subject: OC-II
Marks: 15 Marks

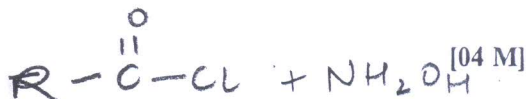
Date: - 29/02/16
Time: - 2.00 am-3.00 pm

- Q.1 Methods of preparation of alcohols [03M]
Q.2 Explain Transesterification [02M]
Q.3. Write any two methods of preparation of amines ? [02M]
Q.4. Predict the product? [02 M]



Q.5 Convert the following

- a) Aniline to P-nitrobenzene
b) Nitrobenzene to m-nitrophenyl



Q.6. Write a note on Schmidt rearrangement [02 M]



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S. Y. B. Pharm. (Semester –IV) CBSGS
Periodic Theory Examination (2016)

Subject: Pharmaceutical Analysis – 01
Marks: 15 Marks

Date: - 01/03/16
Time: - 11.00 am-12.00 pm

- Q.1 Explain the following terms 02
- A) i) Solubility Product ii) Absolute Errors
- Balance and complete the reaction:-
- B) i) $I_3^- + S_2O_3^{2-} \rightarrow S_4O_6^{2-} + I^-$ ii) $MnO_4^- + H^+ \rightarrow MnO_2 + H_2O$ 02
- Q.2 What is **Pharmacoepial Monograph**? Identify **The Type of Titration, Indicator** employed (if any), **Dose** and mention **Pharmaceopial Factor** for the same. (ANY TWO)
- a) Aspirin b) Hydrogen Peroxide c) Soluble Aspirin Tablet 03
- Q.3 **Explain theories of Neutralisation Indicators** 03
- Q.4 Write Short notes on:- (ANY TWO) 05
- a) Cerrimetry and Permagnometry
- b) Neutralization Curve for HCl and NaOH titration
- c) Primary Standard and Secondary Standard
- d) Ways to Minimize Errors
-



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S. Y. B. Pharm. (Semester -IV)
Periodic Theory Examination

Subject: **Pharmaceutics II**
Marks: **15**

Date: - **02/03/2016**
Time: - **2:00PM-3:00PM**

- Q1. Differentiate between Flocculated and Deflocculated suspension. **2M**
- Q2. Explain (any one) **2M**
- a) DLVO theory
 - b) Schulze Hardy rule
- Q3. Enlist theories of stability of emulsion and elaborate any one. **2M**
- Q4. Describe HLB system and give its importance. **2M**
- Q5. Elaborate on precipitation method for preparation of suspension. **3M**
- Q6. Give an account on additives used in emulsion. **2M**
- Q7. Justify the statements **2M**
- a) Electrolyte play important role in formulation of suspension
 - b) Creaming is reversible and breaking is irreversible.



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

Subject: Microbiology
Marks: 15 M

Date :
Time: pm

Q1. Answer **any two**

[4]

A. Distinguish between **ANY ONE** of the followings

1. Prokaryotes and eucaryotes
2. Fungi and bacteria

B. Match the **followings**

- | | |
|----------------------|---|
| a. Photoheterotrophs | i. Chemical substances as a source of energy & carbon dioxide as a source of carbon |
| b. Chemoautotrophs | ii. Chemical substances as a source of energy organic compounds as a source of carbon |
| | iii. Radiant heat as a source of energy & organic compound as a source of carbon |

Q2. Answer **ANY TWO**

[8]

- A. Explain in detail bacterial growth phase
- B. Write a short note on cultivation of anaerobic bacteria
- C. Explain the principle of gram staining

Q3 Write a short note on **ANY ONE**

[3]

- A. Define selective and differential media with example.
- B. Elaborate on types of bacterial reproduction





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S. Y. B. Pharm. (Semester -IV)
Periodic Theory Examination (2016 - 2017)

Subject: Pharmacology-I
Marks: 15M

Date: 4/3/2016
Time:- 2.00 pm-3.00 pm

Q-1: Match the following.

[2 Marks]

Receptors

- A. G-Protein coupled
- B. Enzyme linked
- C. Ligand gated
- D. Intracellular

Signaling mechanism

- i. Activation of transcription factor
- ii. Activation of ion channels
- iii. Activation of tyrosine kinase
- iv. Activation of adenylyl cyclase

Q-3: Comment on the following statements (ANY FOUR)

[4 Marks]

- a) Warfarin shows variable response in patients.
- b) Glucocorticoid is administered as a single early morning dose.
- c) Gentamycin causes serious 8th cranial nerve damage in patients with renal impairment.
- d) Diuretic causes severe water and electrolyte depletion.
- e) Primaquin may cause hemolytic anemia in usual dose.

Q.1: Attempt following questions (ANY THREE)

[9 Marks]

- A. Compare the Intravenous and sub lingual route of drug administration
- B. Discuss the mechanisms involved in absorption of drugs.
- C. Define the following terms.
 - i. Spare receptors
 - ii. Inverse agonist
 - iii. Potency
- D. Describe the different types of drug antagonism.





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PERIODICAL THEORY EXAMINATION

Sem - IV

Date : 05/03/2016

Marks: 15

CBSGS

Maths & Statistics

Q:1) Attempt any three.

9 marks

1) Find mean by step deviation method.

Daily wages (inRs)	210-230	230-250	250-270	270-290	290-310	310-330	330-350
No of workers	6	16	24	20	10	4	4

2) Find median for following data.

x_i	1	2	3	4	5	6
f_i	7	6	10	8	11	4

3) Find mode of the following distribution.

Age in years	0-9	10-19	20-29	30-39	40-49	50-59
No of persons	12	15	30	23	15	5

4) Find Karl Pearson coeff of skewness from given data.

x_i	3.5	4.5	5.5	6.5	7.5	8.5	9.5
f_i	3	7	22	60	85	32	8

Q: 2) Attempt any two.

6 marks

1) Compute Quartile Deviation (Q.D) & coeff of Q. D .

Daily wages in RS	Below 35	35-40	40-45	45-50	50-55	55-60	60-65	65 above
No of workers	12	18	22	26	36	23	19	8

2) Find Mean deviation from mode.

X	10	11	12	13	14	15
f	2	5	10	21	12	13

3) Calculate Standard Deviation(S.D)& coeff of Variation for

12, 6, 7, 3, 15, 10, 18, 5, 13, 11