



ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

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

- SCHOOL OF ENGINEERING & TECHNOLOGY
- SCHOOL OF PHARMACY
- SCHOOL OF ARCHITECTURE

REV:00	QUESTION PAPER PERIODIC TEST- UT 1	EXM-04(a)	
CLASS :- First Year B. Pharm		SEM:- II	
SCHEME:- PCI Syllabus			
SUBJECT:- HAP-II		DATE:- 5/6/2023	
DURATION:- 60 mins		MARKS:- 30	
Q.01:		Marks	
		CO	
a)	Neurons secreting dopamine are present in..... a. Substantia nigra b. Arbor vitae c. Cerebral peduncles d. Pontine nucleus	1	
b)	.....cells of stomach secrete pepsinogen and gastric lipase a. G cells b. Chief cells c. Parietal cells d. Mucous neck cells	1	
c)	.....of hypothalamus serves as relay centre for reflexes to sense of smell a. Supraoptic region b. Tuberal region c. Mammillary region d. Preoptic region	1	
d)	.....is the organ that stores, concentrates and delivers bile into duodenum via common bile duct a. Liver b. Gall bladder c. Pancreas d. Large intestine	1	
e)	.....are the largest and most numerous neuroglia in the CNS a. Oligodendrocytes b. Astrocytes c. Ependymal cells d. microglia	1	
f)	..... is the small molecule inhibitory neurotransmitter in the CNS a. Glutamate b. Aspartate c. GABA d. Substance P	1	
g)cells secrete intrinsic factor (IF) for vit B12 absorption a. Chief b. Parietal c. Mucous neck d. G	1	

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h)	During thephase of digestion, the smell, sight, thought or initial taste of food activates neural centres a. Gastric b. Cephalic c. Intestinal d. Mechanical	1	
i)	The four layers of GI tract from deep to superficial are a. Mucosa, submucosa, muscularis and serosa b. Submucosa, muscularis, mucosa and serosa c. Muscularis, mucosa, submucosa and serosa d. Serosa, mucosa, submucosa and muscularis	1	
j)	Which of these areas is the association area in the cerebrum? a. Broca's speech area b. Primary visual rea c. Primary auditory areas and Wernicke's area	1	
Q.02 : Long answers (Any one) (draw diagrams wherever necessary)			
a)	Draw a neat labelled diagram of neuron. Explain the phases of action potential generation in neuron	10	
b)	Write about the anatomy and physiology of stomach. Mention the phases of digestion	10	
Q.03 : Short Answers (Any two) (draw diagrams wherever necessary)			
a)	Classify nervous system. Write the functional area of cerebrum	5	
b)	Write a short note on basal ganglia and diencephalon	5	
c)	Write the composition and functions of saliva	5	



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REV:00	<u>QUESTION PAPER SESSIONAL-01</u>	EXM-04(a)	
CLASS :- First Year B. Pharm		SEM:- II	
SCHEME:- PCI Syllabus			
SUBJECT:- EVS		DATE:- 05-06-23	
DURATION:- 60 mins		MARKS:- 30	
		Marks	CO
Q.01 : Answers any one			
a)	Explain water resources in detail.	10	2,3
b)	Describe about Importance of forest.	10	2, 3
Q.02: Answers any Four			
a)	Describe Concept of an ecosystem.	5	1
b)	Outline renewable and non renewable resources.	5	1
c)	Explain about Afforestation and Reforestation.	5	2,4,6
d)	Describe multidisciplinary nature of environmental science.	5	2
e)	Explain Grassland ecosystem.	5	2
f)	Describe deforestation with its reasons.	5	1,5

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REV:00	QUESTION PAPER PERIODIC TEST-1		
CLASS:- First Year B.Pharm		SEM:- II	
SCHEME:- PCI Syllabus			
SUBJECT:- Biochemistry-I		DATE:- 06/06/2023	
DURATION:- 60 mins		MARKS:- 30	
Q.01: Multiple choice questions		Marks	CO
a) D and L isomers are -----of each other 1. Mirror images of each other 2. Not mirror images of each other 3. Both 1 and 2 4. None of above		1	
b) The steroid contain cyclic ring known as..... 1. Cyclopentane 2. Cyclopentanoperhydrophenantrene 3. Phenanthrene 4. None of above		1	
c) C) The average nitrogen content of protein..... 1. 15% 2. 16% 3. 17% 4. 18%		1	
d) The reaction given by two or more peptide linkage is..... 1. Biuret test 2. Ninhydrin test 3. Xanthoproteic reaction 4. Pauley's test		1	
e) E) One of the following is not an aldose 1. Mannose 2. Galactose 3. Fructose 4. Glucose		1	
f) Which of the following statements is known as the rate-limiting step in glycolysis? 1. Enolase 2. Phosphofructokinase 3. Phosphohexose isomerase 4. Glyceraldehyde-3-phosphate dehydrogenase		1	
g) What is the net gain of ATP during the conversion of glucose to pyruvate? 1. 2 ATP 2. 4 ATP 3. 6 ATP 4. 1 ATP +1 GTP		1	
h) Enzymes Concerned with the Citric Acid Cycle are Found in the - 1. Nucleus 2. Ribosomes 3. Mitochondria 4. Nonparticulate cytoplasm		1	
i) The nitrogenous base not present in DNA structure is... 1. Adenine 2. Guanine 3. Cytosine 4. Uracil		1	
j) The end product of purine metabolism in human is 1. Xanthine 2. Uric acid 3. Urea 4. Allantoin		1	
Q.02 : Long answers (Any one)			
a) Explain in detail Glycolysis		10	
b) Write in detail secondary structure of proteins		10	
Q.03: Short Answers (Any two)			
a) Write down the conversion of pyruvate to lactate, Structures required.		5	
b) Give the nutritional classification and chemical properties of amino acids		5	
c) Define and classify carbohydrates with suitable examples. Add note on the function of carbohydrates		5	

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REV:00	QUESTION PAPER PERIODIC TEST- UT 1	EXM-04(a)		
CLASS :- First Year B. Pharm		SEM:- II		
SCHEME:- PCI Syllabus		DATE:- 6/6/2023		
SUBJECT:- Pathophysiology		MARKS:- 30		
DURATION:- 60 mins				
Q.01:		Marks	CO	
a)	Full form of COPD which represent disease of respiratory system is.... a. Cirrhotic obstructive pulmonary disease b. Chronic obstructive pulmonary disease c. Chronic obstructive plural disease d. Chronic osteoporotic obstructive pulmonary disease	1		
b)	Reduced oxygen supply to an organ or part of the body is called as a. Hypoxia b. Hyperemia c. Hyponatremia d. hypokalemia	1		
c)	Hypertension caused by chronic kidney disease is called as..... a. Primary hypertension b. Secondary hypertension c. Non-lethal hypertension d. Essential hypertension	1		
d)	..... is a fluid released during inflammation and has higher amount of protiens a. Lymph b. Transudate c. Exudate d. Intracellular fluid	1		
e)	Which of the following term refers to chest pain brought on by physical or emotional stress and relieved by rest or medication a. Atheroma b. Atherosclerosis c. Angina pectoris d. Ischemia	1		
f)	The major mechanism of damage to plasma membrane in ischaemia is: a. Reduced intracellular pH b. Increased intracellular accumulation of sodium c. Increased Ca ⁺⁺ ions in the cytosol d. Reduced aerobic respiration	1		

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g)	Which of the following events in acute inflammation occurs first? a. Chemotaxis b. Emigration c. Hemostasis d. Margination e. Phagocytosis	1	
h)	Plasma-derived mediators are made in: a. Pancreas b. Gall bladder c. Liver d. spleen	1	
i)	The following adhesion molecules play a significant role in rolling of PMNs over endothelial cells except: a. Selectins b. Integrins c. Opsonins d. Immunoglobulin molecuels	1	
j)	Which of the following are not classic signs of acute inflammation? a. Rubor b. Dolor c. Collagen deposition d. Loss of function	1	
Q.02 : Long answers (Any one) (draw diagrams and flowcharts wherever necessary)			
a)	Define inflammation and write the 5 cardinal signs of inflammation. Write about mediators of inflammation	10	
b)	Write the etio-pathogenesis of reversible cellular injury	10	
Q.03 : Short Answers (Any two) (draw diagrams and flowcharts wherever necessary)			
a)	What is CHF? Explain causes and pathophysiology of CHF	5	
b)	Define hypertension. Discuss the etiology and pathophysiology of hypertension	5	
c)	Explain sign and symptoms and pathophysiology of chronic bronchitis	5	

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F. Y. B. Pharm. (Semester -II)
Periodic Theory Examination (2022 - 2023)

Subject: POC-I
Marks: 30

Date: 07-06-2023
Time: - 10:30am to 11.30am

- Q.1 MCQ is Compulsory
Q.2 Attempt ANY ONE out of two questions.
Q.3 Attempt ANY TWO out of five questions.

Q. No	QUESTIONS	MARKS	CO
1	<p>a) Isopropyl Bromide reacts with alcoholic KOH which gives: a) Propane b) N-Propyl Alcohol c) Propene d) Isopropyl Alcohol</p> <p>b) What is the best way to prepare 1,2-Dibromobutane is to treat: - a) Ethylene with Br₂ b) Acetylene with excess of HBr c) Ethylene with excess of HBr d) 1,2-Dichloroethane with Br₂</p> <p>c) Grain Alcohol is also Known as a) Ethyl Alcohol b) Isopropyl Alcohol c) Methyl Alcohol d) N-Propyl Alcohol</p> <p>d) When Isopropyl Alcohol reacts with Sodium Dichromate it will process--- a) Acetaldehyde b) Propionic Acid c) Acetic Acid d) Acetone</p> <p>e) Which of the following isomers are in dynamic equilibrium with each other? a) Metamers b) Chain Isomers c) Tautomers d) Position Isomers</p> <p>f) Inductive Effect involves- a) Sigma Electron b) Pi Electron c) Both d) None of Above</p> <p>g) Phenol is Acidic in Nature Because of - a) Inductive Effect b) Resonance Effect c) Steric Effect d) Hyperconjugation</p> <p>h) Check the correct statement a) Carboxylic acid are less acidic than alcohols b) Carboxylic acids are more acidic than alcohols c) Carboxylic acids and alcohols have some acidity d) None of Above</p> <p>i) Carboxylate Ion is represented by how many resonating structure a) 3 b) 2 c) 1 d) 4</p>	10	1, 2, 3, 4



j)	Hydroxamic acid test is carried out for identification of ____ a) Amide b) Amine c) Ester d) Carboxylic Acid		
Q.2	ATTEMPT <u>ANY ONE</u> i) Describe in brief SN1 and SN2 reaction with order of reactivity of alkyl halide, stereochemistry and rearrangement of carbocations. OR ii) Explain a) Hell-Volhard Zelinsky's reaction b) Kolbe's Reaction c) Hinsberg Reaction in Detail	10	1,2,3
Q.3	ATTEMPT <u>ANY TWO</u> i) $\text{CH}_3\text{CH}_2\text{Br} + \text{H}_2 \xrightarrow[\text{or Pd}]{\text{Ni}} ?$ ii) $\text{CH}_3\text{I} + \text{Mg} \xrightarrow{\text{ether}} ?$ iii) $\text{CH}_3\text{CH}_2\text{Br} + 2 \text{Li} \xrightarrow{\text{ether}} ?$ iv) $\text{CH}_3\text{CH}_2\text{Br} + 2 \text{Na} + \text{BrCH}_2\text{CH}_3 \xrightarrow{\text{ether}} ?$ v) $\text{CH}_3\text{Cl} \xrightarrow[\text{UV light}]{\text{Cl}_2} ?$	05	02
Q.3 a)	Q.3 b) Explain Any Five Nucleophilic Substitution reactions of Alkyl Halides.	05	02
	Q.3 c) Explain any five methods of preparation of Alkyl Halides.	05	02
	Q.3 d) Explain Basicity of Amines and Effect of substituent on basicity of it.	05	02,03
	Q.3 e) Describe any five methods of preparation of aliphatic amines.	05	02



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REV:00	QUESTION PAPER PERIODIC TEST - I	EXM-04(a)	
CLASS :- First Year B. Pharm		SEM:- II	
SCHEME:- PCI Syllabus			
SUBJECT:- Computer Application Pharmacy		DATE:-12/07/23	
DURATION:- 60 mins		MARKS:- 30	
Q.01 : Long answers (Any one)			
a)	Explain hospital pharmacy information system (HIS).	10	1
b)	Explain Data flow Diagram (DFD).	10	1
Q.02 : Short Answers (All questions compulsory)			
a)	Convert binary to Decimal (1010101).	5	4,5
b)	Write 1's and 2's complement of 100101.	5	4,5
c)	Add decimal number to binary number (12+4) =?	5	4,5
d)	Explain Algorithm and flow chart	5	4,5



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Sessional - II

REV:00	QUESTION PAPER PERIODIC TEST -II		EXM-04(a)	
CLASS :- First Year B. Pharm			SEM:- II	
SCHEME:- PCI Syllabus				
SUBJECT:- Computer Application Pharmacy			DATE:-13/7/23	
DURATION:- 60 mins			MARKS:- 30	
Q.01 : Long answers (Any one)				
a)	Explain Any 10 tags of html.	10	1	
b)	Explain Image and types of image.	10	1	
Q.02 : Short Answers (All questions are compulsory)				
a)	Explain ordered list and unordered list.	5	4,5	
b)	What is HTML. Enlist features of HTML.	5	4,5	
c)	Explain CSS.	5	4,5	
d)	Explain Arithmetic compliment with example	5	4,5	

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