



**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	EXM-04(a)	
CLASS :- Third Year B. Pharm		SEM:- V	
SCHEME:- PCI Syllabus		DATE:- 18-08-23	
SUBJECT:- Medicinal Chemistry-II		MARKS:- 30	
DURATION:- 60 mins			
<b>Q.01: Multiple choice Questions</b>			
a)	Cisplatin is used in the treatment of a. Breast cancer b. Leukemia c. Testicular cancer d. Adrenocortical carcinoma	Marks 1	CO 4
b)	6-Mercaptopurine inhibits a. DNA Polymerase b. Amido-phosphoribosyltransferase c. Thiopurine Methyl transferase d. Thymidylate synthase	1	2
c)	L-isomer of Phenylalanine alkylating agent used in the treatment of cancer a. Melphalan b. Chlorambucil c. Mechlorethanamine d. Cyclophosphamide	1	3
d)	Folic acid antagonist used in the treatment of various lung cancer is a. Cyclophosphamide b. Methotrexate c. Doxorubicin d. Mechlorethamine	1	1
e)	SM is a 17-year-old boy with single kidney who is diagnosed with acute lymphoblastic leukemia and was given cyclophosphamide as part of treatment. Continuous fluid has been flushed to keep his bladder irrigated but still showing symptoms of bladder toxicity. Which prophylactic treatment you will suggest for the SM? a. Leucovorin b. Dactinomycin c. Mesna d. Mitotane	1	6
f)	Which class of antibody is associated with allergic reaction? a. IgE b. IgG c. IgM d. IgA	1	1
g)	What are the characteristics of 2 <sup>nd</sup> generation H1 antihistamines? a. Selective for peripheral H1 receptors b. Opposed to CNS H1 receptors c. Selective for peripheral H1 receptors and opposed to CNS receptors d. Selective to H1 receptors of CNS	1	2
h)	Histidine decarboxylase needs a co-factor for biosynthesis of Histamine: a. pyridoxal-5'-phosphate b. FcR1 c. Histamine transmethylase d. Diamine oxidase	1	1
i)	Cardiotoxicity is the major side effect of..... a. Second generation anti-histamines b. First generation anti-histamines c. Third generation anti-histamines d. None of the above	1	4
j)	A patient was given a topical mast cell stabilizer to treat her hay fever symptoms in her eyes. Identify the name of the drug: a. Cromolyn Sodium b. Fexofenadine c. Cetirizine d. Cimetidine	1	1
<b>Q.02 : Long answers (Any one)</b>			
a)	Classify Alkylating agents with relevant structures. Explain mechanism of action. Outline the synthesis of Mechlorethanamine.	10	2,5
b)	Categorize H1 antihistamines and write the mode of action along with synthesis for diphenhydramine.	10	2,5
<b>Q.03 : Short Answers (Any two)</b>			
a)	Cardiac toxicity is major side effect of anthracycline antibiotics. Justify.	5	4
b)	Explain activation and mechanism of action of fluorouracil. (Reactions are expected)	5	3
c)	Explain why do we call PPIs as irreversible inhibitors with diagram? Discuss the SAR for H2 antacids.	5	3

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REV:00	QUESTION PAPER PERIODIC TEST	EXM-04(a)	
CLASS:- Third Year B.Pharm		SEM:-V	
SCHEME:- PCI Syllabus			
SUBJECT:-Industrial Pharmacy-I		DATE:- 19/08/2023	
DURATION:- 60 mins		MARKS:- 30	
<b>Q.01: Multiple Choice Questions</b>		<b>Marks</b>	<b>CO</b>
a)	For a tablet weighing 75mg, the limit of weight variation as per IP is $\pm$ _____ w/w. a. 2.5%                      b. 5% c. 7.5%                      d. 10%	1	1, 2, 3, 4
b)	Which dosage form is exempted from the Disintegration Test?? a. Conventional tablets      b. Sugar-coated tablets c. Enteric-coated tablet      d. Chewable tablets	1	
c)	PH of the solution depends on which law? a. Henderson-Hasselbalch equation      b. Henry's Law c. Charle's law                                  d. Dalton's Law	1	
d)	_____ is example of glidant. a. Aerosil                                  b. Microcrystalline cellulose c. Avicel                                  d. Sorbitol	1	
e)	Tap density apparatus is used to determine a. Partition coefficient                      b. Flow property c. Organoleptic property                      d. Intrinsic dissolution	1	
f)	Wet gum method is used to manufacture a. Syrup      b. Emulsion c. Aromatic waters      d. Suspension	1	
g)	In multistation tablet press _____ guides the movement of punches. a. Turrets      b. Feed frame c. Cam track                                  d. Capacity control	1	
h)	The adhesion of tablet material to the die wall is called a. Picking                                  b. Capping c. Sticking                                  d. Mottling	1	
i)	The test used to determine the tablet's resistance to abrasion is called as a. Hardness      b. Disintegration c. Content uniformity      d. Friability	1	
j)	Specified disintegration time For sugar-coated tablets? a. 5min                                  b. 30 min c. 10 min                                  d. 60 min	1	
<b>Q.02 : Long answers (Any one)</b>			
a)	Explain in detail quality control tests for a tablet along with instruments used for same.	10	4
b)	Discuss solubility analysis of a drug in Pre formulation studies. In brief write applications of Preformulation in the development of solid oral dosage form.	10	1
<b>Q.03: Short Answers (Any two)</b>			
a)	Give an account of polymers used and steps involved in Sugar coating.	5	2,3
b)	Discuss the compression and processing problems with tablets and remedies for same.	5	2,3
c)	Write a short note on- (any one) A. Filling & packaging of liquid orals. B. Coating methods & equipment	5	2

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**T Y. B. PHARM. (SEMESTER V)**

FIRST SESSIONAL Theory Examination (2023 – 2024)

Subject: Pharmaceutical Jurisprudence

Marks: 30

Date: 23-8-23

**ALL QUESTIONS ARE COMPULSORY**

Q. N	QUESTIONS	MARKS	CO
1	<p><b>MULTIPLE CHOICE QUESTIONS.</b></p> <p>1. Regulations regarding storage of various drugs is significance of</p> <ol style="list-style-type: none"> <li>Schedule M</li> <li>Schedule N</li> <li>Schedule P</li> <li>Schedule T</li> </ol> <p>2. Symbol Rx is requirement of labelling for drugs under</p> <ol style="list-style-type: none"> <li>Schedule X</li> <li>Schedule H</li> <li>Schedule C</li> <li>Schedule K</li> </ol> <p>3. Spurious drugs are</p> <ol style="list-style-type: none"> <li>Drug containing any harmful or toxic substances</li> <li>Not labelled in prescribed manner</li> <li>Manufactured under name which belong to another drug.</li> <li>Drug under patent</li> </ol> <p>4. Schedule J signifies</p> <ol style="list-style-type: none"> <li>List of permitted dyes and coal tar colours in cosmetics</li> <li>Various drug related to hormonal effect</li> <li>List of drugs marketed under generic name only</li> <li>Various aliments that cannot be treated by any drug currently market</li> </ol> <p>5. Minimum Ancillary area requirement for manufacturing according to Sch M is</p> <ol style="list-style-type: none"> <li>10 Sq mt</li> <li>30 Sq mt</li> <li>15 sq mt</li> <li>40 sq mt</li> </ol> <p>6. The animal house facilities are approved by</p> <ol style="list-style-type: none"> <li>CPCSEA</li> <li>PCI</li> <li>AICTE</li> <li>DTE</li> </ol> <p>7. Which of the following controls the prices of drug</p> <ol style="list-style-type: none"> <li>DPCO</li> <li>The drug and cosmetic act, 1940</li> </ol>	10M	1,2,5





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	<p>c. CDSCO d. The drug and magic remedies act</p> <p>8. IAEC can give approval without sending to CPCSEA the studies for</p> <p>a. Only small animals b. Only large animals c. Both small and large d. None</p> <p>9. Any person contravenes any of the prevention of cruelty to animal act is punished with a fine of rupees</p> <p>a. 200 b. 2000 c. 300 d. 15000</p> <p>10. the drug and magic remedies (objectionable advertisement) rules were introduced in which year</p> <p>a. 1954 b. 1953 c. 1955 d. 1948</p>		
2	<p><b>LONG ANSWER QUESTIONS (ATTEMPT ANY ONE)</b></p> <p>a. Give in detail about Schedule M</p> <p>b. Write the objectives and prevention of cruelty to animals. What are the parts of CPCSEA guidelines?</p>	10M	1,2
3	<p><b>SHORT ANSWER QUESTIONS (ATTEMPT ANY TWO)</b></p> <p>a. What are schedule H drugs and draw a specimen label for schedule H drug</p> <p>b. Name the classes of drugs prohibited for import also mention drug permitted only under licence. Penalty related to imports of any drug or cosmetic the import of which is prohibited in public interest.</p> <p>Or</p> <p>Mr. Iqbal is a manufacturer of drug consisting Benzodiazepam as API. He is importing the finished product through air. During inspection by officer he is asked for documents. State the type of schedule the drug belong and various documents need to carry licence, form, schedule that will be applied s etc. What if some spurious ingredient was found in the product.</p> <p>c. Write the offences and penalties in contravention of D &amp; MR act</p>	10M	1,2 5



