

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

Approved by : All biddle Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
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SCHOOL OF ENGINEERING & TECHNOLOGY SCHOOL OF PHARMACY

OUESTION PAPER PERIODIC TEST SEM:- V	71	
ASS:- Third Year B. Pharm	1	
HEME:- PCI Syllabus	20/3/2023	
BJECT:- Medicinal Chemistry -III MARKS		
RATION:- 60 mins	M	CO
O1. MCOc	1	2
Which enzyme is the target for the quinolone antibacterial agents? (a) Topoisomerases (b) Kinases (c) Proteases (d) Transpeptidases		
PG is a 7-year-old girl. Laboratory tests confirmed a diagnosis of human granulocytic anaplated due to black legged tick when she was playing in wooded areas of her backyard. First line the for anaplasmosis is Doxycycline. Predict the side effect for the treatment and its remedy. a)Chelation, Dairy products should be avoided b) Phototoxicity, Sunscreen should be applied.		4,6
Poor water solubility of chloramphenicol is overcome by conversion to its salt a) Stearate b) Palmitate c) Hemisuccinoyl ester d) Phosphate ester	1.	3.
Which of the following Antiprotozoal drug interferes with mitochondrial transfer a) Metronidazole b) Atovaquone c) Iodoquinol d) Diloxanide furoate	1	2
a) Metronidazole The antibiotic isolated from Streptomyces Venezuelae is a) Lincomycin b) Chloramphenicol c) Cindamycin d) Streptomycin	1	1
a) Encomychi b) Chicramphone which of the following Anthelmintic class acts by inhibiting tubulin polymerization, a) Ivermectin b) Diethylcarbamazine c) Mebendazole d) Oxamniquine	1	1
The following chemical moiety is very important for anthelmintic activity in oxamnique structure (a) Formaldehyde (b) Acetone	ine 1	3
a) Hydroxyethyl b) Hydroxymethyl c) Formaldehyde d) Acetone a) Primary schizonts are developed to secondary schizonts through the merozoits except a) Primary schizonts are developed to secondary schizonts through the merozoits except c) P. malariae d) P. ovale	1	2
a) P. vivax b) P. falciparum c) P. maiariae d) 1. ovaic i) The following toxicity can be observed in fluroquinolones due to presence of fluorine group at		4
i) Quinine has absolute configuration as a) 3R:4S:8S:9R b) Photosensitivity c) Cardiac failure d) Hypoglycaemia c) 3S:4R:8R:9S d)3S:4S:8R:9R	1	3
Q.02: Long answers (Any one)	uine in 1	0 2,
a) Explain Etiology of malaria. Comment on targets of 4-Aminoquinolines. Describe chloroquidetail.		0 2,
detail. b) Give Classification, MOA and structural features of fluroquinolone drugs		
Q.03: Short Answers (Any two)		5 4
a) Explain the metabolism of benzimidazole and diethylcarbamazine		5
- for the following drugs (Any 1)		
b) Write synthetic scheme for the following drugs (Any 1) 1. Mebendazole 2. Ciprofloxacin 3. Chloramphenicol c) What are macrolide antibiotics? Explain specific esters and salt forms of erythromycin in a contract of the following drugs (Any 1) 3. Chloramphenicol	detail	5



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T Y.B. PHARM. (SEMESTER VI) FIRST SESSIONAL THEORY EXAMINATION (2022 - 2023)

Subject: PHARMACOLOGY-III

Marks: 30

Date: 28-03-2023

ALL QUESTIONS ARE COMPULSORY

Q. N	QUESTIONS	MARKS	CO
I.	MULTIPLE CHOICE QUESTIONS.		
	Caspofungin, a Echinocandins act by:		
1.	A. Inhibiting synthesis of β-1, 3-glucan		
	B. Inhibiting synthesis of microtubules		
	C. Reducing affinity for ergosterol		
	D. All of the above		
-	Quinine is:		
2.	A. Inhibitor of plasmoidal DHFRase		
	B. Erythrocytic schizonticide		
	C. Aainst gametocytes and hypnozoites		
	D. None of the above		
	Which one of the following is sesquiterpine lactone endoperoxide:		
3.	A. Sulfamethopyrazin		
	B. Pyrimethamine		
	C. Artemether		
	D. Proguanil	1	1
		10M	1,3
,	Pyrazinoic acid is active metabolite of:		4
4.	A. Rifampicine		
	B. Prothionamide		
	C. Para-aminosalicylic acid		
	D. Pyrazinamide		
5.	Which of the following is efficient anti-tubercular and anti-leprotic drug:		
	A. Ethambutol	-	+
	B. Streptomycin		
	C. Rifampicin		
	D. None of the above		
6.	All aminoglycosides exhibits:		
	A. Ototoxicity and nephrotoxicity		
	B. Neurotoxicity and hepatotoxcity		
	C. Cardiotoxicity		
	D. Meningitis and epilepsy		

Innovative Teaching Evularant Lagrain.



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7.	A. Combining with 50S ribosome subunits and interferes with translocation.		
	B. Inhibiting bacterial protein synthesis by interfering with t-RNA.		
	C. Inhibiting \(\beta\)-lactamase		
	D. Counterfeiting for D-alanine in the bacterial cell wall		
0	Tetracyclines develops resistance by:		
8.	A. Inhibition of Pump in and stimulation of out mechanism		, a
	B. Protection of ribosomal binding site		
	C. Activation of inactivating enzyme		
	D. All of the above		
9.	Chloramphenicol causes		
	A. Gray baby syndrome		
	B. Bone marrow depression		
	C. Hypersensitive reactions		
	D. All of the above		
	Erythromycin leads to development of at high dose.		
10.	A. Hearing loss		
	B. Epigastric pain		
	C. Hypersensitive reactions		
	D. All of the above		
II.	LONG ANSWER QUESTIONS (ATTEMPT ANY ONE)		
	Discuss sources, mechanism of action, adverse effects and uses of		
a.	chloramphenicol OR		1,3
	chloramphenicol OR	10M	4
	Classify antifungal agent with examples. Write mechanism of action,		
	therapeutic uses and adverse effects of amphotericin-B.		
a.	therapeutic uses and acresse stress		
III.	SHORT ANSWER QUESTIONS (ATTEMPT ANY TWO)		
	Total and a state of action of isoniazide and		
a.	Classify anti-tubercular drugs. Explain mechanism of action of isoniazide and	1.	
	rifampicin.		1,3
	development of registence of chloroquine	10M	4
b.	Discuss mechanism of action and development of resistance of chloroquine		1
	and proguanil.		
	How tetracycline causes discoloration of teeth and developed resistant.		
C.	How tetracycline causes discoloration of teem and developed resistant.		



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RI	EV:00 QUESTION PAPER PERIODIC TEST	EXM-04(a)	
	S:- Time Tour D: Time II	SEM:- VI	
	ME:- PCI Syllabus		
SUBJ		E:- 21/03/2023	
DURA	ATION:- 60 mins MAR	KS:- 30	1.00
Q.01:		Marks	CC
a)	According to Biopharmaceutics Classification System (BCS), Class II drugs have a. Low solubility /High permeability b. High solubility /Low permeability c. High solubility/High permeability d. Low solubility /Low permeability	1	
b)	What is the equation of bioavailable fraction? a. Bioavailable dose/Administered dose c. 1/Bioavailable dose b. Administered dose/Bioavailable dose d. 1/Administered dose	1	
c)	USP Apparatus 5 is a. Flow-through- cell b. Paddle over disk c. Reciprocating cylinder d. Cylinder apparatus	1	
d)	The comparison of bioavailability between two dosage forms. a. Bioavailability b. Bioequivalence c. Biopharmaceutics d. Biological	1	
e)	What is the equation for clearance? a. Plasma drug concentration/elimination rate c. Elimination rate / plasma drug concentration d. 1 / Plasma drug concentration d. 1 / Elimination rate	1	
f)	How do you calculate the rate of excretion by kidneys? a. Rate of filtration – the rate of secretion – Rate of absorption b. Rate of filtration + rate of secretion + Rate of absorption c. Rate of filtration + rate of secretion – Rate of absorption d. Rate of filtration – the rate of secretion + Rate of absorption	1	
g)	is not used to estimate GFR to determine renal function. a. Creatinine b. Inulin	1	
h)	c. Mannitol d. Glucose Which drug cannot be filtered through glomerulus? a. Unbound drug b. Free drug c. Below mol. wt. 300Da. d. Plasmaprotein bound drug	1	
i)	What is the equation for bioavailability? a [AUC]test Dstdrtest / [AUC]stdDtestrstd b. [AUC]test Dtestrstd / [AUC]stdDtestrstd	1	
j)	c. [AUC]stdDstdrtest / [AUC]test Dtestrstd d.1 / [AUC]stdDtestrstd Which of the following is the pharmacodynamics method of studying bioavailability? a. Acute pharmacologic response b. Plasma-level time studies c. Urinary excretion studies d. Stool excretion studies	1	
	: Long answers (Any one) Define Bioavailability. Write in detail methods of measurement of Bioavailability.	10	
a) b)	Explain in brief different non per oral extra vascular routes of administration.	10	
Q.03	3: Short Answers (Any two)	5	T
a)	What is Renal Clearance? Explain any three factors affecting renar clearance.	5	-
b)	Elaborate on different pharmaceutical formulation related parameters affectiong drug absorption	5	+
c)	Write a short note on- (any one) A. IVIVC B. Bioequivalence and types of bioequivalence		



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EXM-04(a) QUESTION PAPER THEORY SESSIONAL II REV:00 SEM:- VI CLASS: - Final Year B.Pharm SCHEME:- CBCS R 2019 103/213 DATE: - Z SUBJECT:- HERBAL DRUG TECHNOLOGY MARKS:- 30 DURATION:- 60 mins Note: 1. All questions are compulsory. 2. Draw structures and diagrams wherever applicable. CO Marks Q.01 Answer all the questions [MCQs] (1 x 10) 10 4 1. Oil obtained from rhizomes of this plant used in hair tonic preparation a. Onion plant b. Tea tree c. Citrus Tree d. Jatamansi 2. The Creams which clean skin and removes dirt, dust, micro organism, sweat and make-up a) Soap b) Vanishing Cream c) Cleansing Cream d) Cold Cream 3. Saffron's crocin is responsible for following color d. Purple shade c. yellow - orange b. Green a. Brick red 4. The source of Bixin is c. Lemon d. Carrot b. Onion a. Annatto 5. Melaleuca alternifolia drug oil popularly is used as b. Oral hygiene c. Eye care cosmetics d. Skin a. Skin protective agent coloration 6. Stevia plant is known for which important property? a. Natural colorant b. Natural binder c. Disintegrating property d. Natural sweetener 7. Natural source of Galactomannan is a. Gelatin b. Mentha species c. Orange d. Guar gum 8 Vanillin is a constituent of a. Stevia plant b.Honey c.Vanilla pods d. Cardamom 9. In the case of evaluation of pesticide content MRL is a. Minimum reduction in pesticide load b. Minimum ratio limit d. Maximum residue limit c. Maximum residue level 10. Following is important evaluation parameter for toxicity determination of herbal a. Solubilty determination b. Determination of aflatoxin c. Foaming Index d. Extractive

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10	
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5	1
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	5 5 5

[Page 2 of 2]



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"41) MUMBAI (MED"			
REV:00 QUESTION PAPER PERIDIC TEST		·06(B)	
CLASS:- TY	SEM:- 6 th Sen	n	
SCHEME:- R-CBCS			
SUBJECT:- Pharmaceutical Biotechnology	DATE:- 23/	03/20	23
DURATION:- 60 mins	MARKS:- 30		
Q1. MCQ'S (Each 1 marks)	***		
Enzymes are (Micro-molecules/ Macromolecules/ Bion	molecules)		
2. Site directed mutagenesis are induced (Naturally / force	cedly / Artifici	ally)	
3. Which of the following is not a correct sentence about protein engine	eering		
 (It is the study of structure of proteins/ It is the study of 			e/It
is the study of nucleotide sequence. / It is the study of f			
4. Select the wrong statement about plasmids? (It is extra chromosom		le stran	ded/
its replication depends upon host cell/ It is closed and o			
5. Shelf life of Whole human blood is (3 days/ 5 years./ 3 months/ 21			
6. Loop Fermenter is a type of (Mechanically stirred fermenter/ Forced	convection fe	rmente	r/
Pneumatic fermenter /Tray fermenter)			
7. Micro-organisms used for the vitamin B12 fermentation. (Penicillium	chrysogenun	1/	
Aspergillus niger/ Pseudomonas denitrificans/ Saccharomyces cerev	isiae)		
8. When viral genome integrates into the bacterial genome it is known	as (temperate	e phage,	/
prophage / bacteriophage/ Episome)			
Enzyme used to join Target DNA and Vector DNA is (Restriction)	on endonuclea	ase/Liga	ase/
Polymerase/ Lipase			
10. Diptheria Vaccine is (Killed vaccine/ Live attenuated vaccine./ Toxoi	d vaccine/ Re	combina	ant
DNA vaccine)			
Q.01 Attempt any 1: (10 Marks)	1	Marks	СО
a) Enlist the types of fermenter and explain any one in detail. Explain the	production		
of Vitamin B12 by fermentation		_	
b) Describe Plasmid and its type and add a note on Trasposomes			
Q.02 Attempt any 2: (05 Marks)	Т		
a) Define Mutation, explain different Mutants.			
b) Comment on Processing and Storage of whole human blood			
c) Describe the design of large scale Fermenter and production of penicillin			



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-	REV:00 QUESTION PAPER SESSIONAL EXAM-02 ASS: Third Year B. Pharm	SEM:- VI	
SCI	HEME:- PCI Syllabus	SEIVI VI	
SUE	BJECT:- Pharmaceutical Quality Assurance	DATE:- 23-03	-23
	RATION:- 60 mins	MARKS:- 30	
Q.01		Mark	CO
a)	a. SOP b. Quality Audit c. Complaint D. Quality Review	1	1
b)	Adverse reaction Complaint is due to a. allergic reactions b. fatal reaction or nearly fatal reaction c. any other untoward reaction d. All of the above	1	1
c)	Which is correct in relation of time period for investigation after receipt of complaints a. Product quality complaints- 10 days b. Medical complaint- 3 days d. All of the above		1
d)	Defects which can be life threatening & require the company to take immediate action a.Critical defects b. Major defects c. Minor defects d. All of the above	1	1
e)	MFR stands for a. Master Formula Report c. Main Formula Record b. Master Form Recorder d. Master Formula Record	1	. 1
f)	a. Qualification b. both c. Quantitation d. GMP	1	1
g)	Which is type of Qualification a.Performance Qualification b.Operational Qualification d. All of the above	1	1
h)	Powder glass test involves titration using a. starch b. sulphuric acid as the titrant c. iodine d. nitric acid	1	1
i)	a. External c. Internal b. regulatory d. All of the above	1	1
)	No test facility may claim GLP compliance if it does not comply with the full array of a. the GLP rules b. the GMP rules d. All of the above	1	1
MATHEMATICAL PROPERTY.	2 : Long answers (Any one)		
a)		10	2
b)	Explain protocol and conduct of Non clinical Laboratory study.	10	2
Q.03	3 : Short Answers (Any two)		
a)	Explain Powder glass test.	5	1
b)	How will you perform pH meter calibration.	5	2
C)	Describe Quality Audit.	5	2