#### SARDAR PATEL UNIVERSITY

# M.Sc. (Forth Semester) EXAMINATION

Organic Chemistry (PS04ECHE01)

## **Medicinal Chemistry**

Thursday, 6<sup>th</sup> December, 2012

Time: 10:30 am to 1:30 pm

Note	Figu	Tot	Total Marks: 70					
Q1.	Ansv	wer th	e following r	nultio	choice questions.	IIII as 4	****	[8]
	(1)	Sulph	nonamide deri	vative	s are		+ 2 2 +	¥ .
	56	a]	Antibiotic	b]	Antibacterial		A.	147
	2	c]	Antivirus	d]	Antineoplastic			. *
	(2)	Angio	ogenesis is res	porisil	ole for the growth of	****		14
	0 24	a]	Tissue	b]	Blood vessels			
		c]	Bones	d]	Teeth		000	
	(3)	The l	Depsipeptide i	s curre	ently being studied as	an antican	cer agent	is
	15	a]	Synthetic	b]	Natural			
	4.	. c] ~	Semi-synthe	etic	d] Non of these	S **	10405	
	(4)	The	Glycene is			digens.	police de la	
, Addail		a]	C-Protein	b]	G-Protein	163, EA		
4.4	U (*)	· c]	Multiprotein	d]	Conjugated protein			Na 7
	(5)	Blood	d is red due to			0	Agra 1	rg - 2
15 K	7 PT	a]	Plasma	b]	Hemoglobin			
21	W	c]	WBC	d]	Fibrinogen	70, Tel	and the	V.

ibe po	(6)	A dia	gram shows t	he phe	nol aromati	c ring an	d an amine groups	1000
CISC ILE	gara inter t	, and t	their relative o	rientati	ons. Which	is the te	erm for this ?	Out N
y varan		a]	Pharmacody	mamics		b]	Pharmacophore	, 19 V
Nati		c]	Chromopho	re;		d]	Pharmacokinetics	NO 1935
ari, Ari	(7)	Antic	ancer drugs a	re also	known as .			
24	Anne Lyte,	a]	Antianxiety	b]	Antineopla	astic		,//÷:
M.	467.00	c]	Antibiotics	d]	Antidepre	ssant		*
E - 1 - 1 - 1 - 1	(8)	2-Aze	tidinone moie	ty pres	ent in	drug,		
· .	1,000	a]	Lisinopril	b]	Penicillin			
125	2000 1200 150	c]	Propranolol	d]	Mephalan		W.	
	O -2 Answ	ver the	following.	(Any c	even)	-u/+1-		[14]
					73/11/10 B		erve infection and require	-
							0 Kg. The Vd of the antib	
			L / 70 Kg, F					iouc
- AE	(2)		is QSAR study		23 – 10 þý	g/IIII, Cai	culate Di.	
	101100		the model of		f MI CV and	tiblotics	125	
	( <del>4</del> )	Define	neurgtransm	itters a	nd write str	ructural f	ormula for any four small	
		molec	ules of it.					
7. × ··	(5),	Name	at least four o	quinolor	ne antibioti	cs.		
ga ett s	(6)	Explain	n molecular hy	/bridiza	tion in drug	g design	with examples.	
97/	(7)	Explair	the terms gr	am pos	itive and g	ram nega	ative bacteria.	
	(8)	Define	, .a]	Psycho	sis b]	Schizo	phrenia	
ayna a	(9)	Define	prodrugs with	n suitab	le example			
			*		10			

### Explain briefly the drug distribution OR drug metabolism. [A] [6] Explain pharmacokinetics in terms of the time course of drug [B] concentration in patient. [6] [B] Explain any two: [6] (i) Define various pharmacokinetics parameters (ii) Drug elimination Explain various methods for drug administration of drugs (iii) in human body. Q.-4 Answer the following: [A] Write a note on following: [6] Constitutive activity of receptor (i) Agonist and antagonist (ii) [B] Explain the following: [6] Signaling by local chemical messenger (i) (ii) Intracellular receptor \* mades Lear willing 1 21 OR [B] Explain the following: Molecular Modeling of drug action NO (開催すない 外面 トナバル) → Methods used for lead modification (ii)

Q.-3 Answer the following:

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wanted define the constitution for the

## Q.-5 Answer the following: [A] What are antibiotics? Give their classification with examples. Discuss the mode of action of at least two of the antibiotics categories. [6] [B] What are aritineoplastic drugs ? Give the details with mode of action. [6] OR [6] Write a note on following: [8] Cardiovascular drugs (1) Antidepressant agents (ii) Q.-6 Answer the following: [A] Write the synthesis of following: (Any two) [6] Haloperidol (i) (ii) Propafenone Procainamide (iii) [B] Write the synthesis of following: (Any two) [6] Nifedipine (i) Disopyramide (11) Procarbazine (III) OR 739. and find energy (5) white the synthesis of following: (Any two) Chlorpromazine (1)

W10

5.30

£141. A.F.

Zopiclone

Nalidixic Acid

(ii)

(111)