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SARDAR PATEL UNIVERSITY

M. Sc. Pharmaceutical Chemistry (Semester-IV) Examination Tuesday, 26/03/2019; Time-2:00 PM to 5:00 PM SUBJECT CODE: PS04EPCH21

SUBJECT TITLE: Advances in Pharmaceutical Chemistry

Maximum Marks: 70

Note:	(i) All questions are to be attempted. (ii) Figures to the right indicate marks.				
Q.1	Choose the correct option for the following:	• • • • • • • • • • • • • • • • • • • •			
(i)	Combinatorial synthesis is also known as:				
• • • • • • • • • • • • • • • • • • • •	(a) Parallel (b) Branched (c) Both (d) None				
(ii)	Molecular unit covalently attached to the polymer chain making up the solid				
	support is known as:				
	(a) Anchor/linker (b) Adhesive (c) Both (d) None				
(iii)	Stereoisomers that are not mirror images of each other?				
4 \	(a) Diastereomers (b) Mesomer (c) Enantiomer (d) None				
(iv)	Enantiomers are also known as.				
(\	(a) Structural (b) optical isomer (c) Cis-trans (d) None				
(v)	The enzyme capable of catalysing the hydrolysis of L-asparagine, yielding				
	aspartic acid and ammonia is: (a) Protiase (b) Asparaginase (c) galactosidases (d) None				
(vi)	(a) Protiase (b) Asparaginase (c) galactosidases (d) None For therapeutic use the whole blood is withdrawn:				
` '	(a) Aseptically from human (b) From human and bovine (c) Animal's blood				
	can be used (d) None				
(vii)	Tenofovir is used for the treatment of				
	(a) Alzheimer's disease (b) Parkinson (c) HIV (d) Fever				
(viii)	IFNs belongs to the class of proteins known as				
	(a) Cytokins (b) anti inflamatory (c) Hypertentive (d) cryogenic				
Q.2	Answer the following: (attempt any Seven)	7x2=14			
1.	Describe the term tagging	/ 32-14			
2.	Explain Fmoc/t-Bu strategy				
3.	What is chirality?				
4.	Define asymmetric synthesis.				
5.	What are the major aims of generating engineered insulin analogues?				
6.	Describe the inhibition of INTERLEUKIN-2 (IL-2).				
7.	Define Haemostasis.	-			
8.	What is somatostatin?				
9.	What happens if patients have too much relaxin?				
	(1)				

0.1			
Q.3	A.	Flahorate the The mix and only mothed in combinate with win	0.6
	В.	Elaborate the The mix and split method in combinatorial synthesis Write a note on Parallel synthesis.	06 06
		OR	00
	В	Give the Dynamic combinatorial Synthesis with suitable example.	06
Q.4			00
	A.	What is the importance of chirality in drug development?	06
	В.	Discuss asymmetric synthesis.	06
	-	OR	
0.5	В.	Write the asymmetric synthesis of Dilitazem.	06
Q.5	A.	Flaharata Human grouth harmona (hCII) and also sing the high-right for the	0.0
	A.	Elaborate Human growth hormone (hGH) and also give the biological effect and therapeutic use of GH.	06
	B.	Write a note on Interferon.	06
		OR	00
	B.	Write a note on Anticoagulants.	06
Q.6			
	A.	Write explanatory note on AIDS	06
	В.	What is insulin? Explain in details about the types of insulin.	06
		OR	
	В.	Write types, mode of action and uses of DNase.	06
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