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[119]

SARDAR PATEL UNIVERSITY

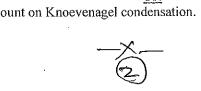
M.Sc. Organic Chemistry,

Semester IV, External Examination

Saturday, Date: 23-11-2019 Time: 02:00 pm to 05:00 pm d Organic Chemistry Paper:

	Subject: Applied Organic Chemistry Paper: PS04EORC22						
N.B.	, ,	Figures to the right indicate marks. Attempt all questions.	[Total marks: 70]				
Q.1	Choose the correct option from the following.			08			
	1.	Process chemistry is the arm of	(b) bio chemistry				
		(a) analytical chemistry (c) physical chemistry	(d) pharmaceutical chemistry				
		(c) physical chemistry	(u) pharmacouncil chomology				
	2.	The drug that reduces fever is called as	S				
		(a) antipyretics	(b) analgesics				
		(c) antibiotics	(d) antiseptics				
	•	The Hawkinides shows notion on					
	3.	The Herbicides shows action on	(b) fungi				
		(a) algae (c) birds	(d) plants				
		(c) onds	(d) plants				
	4.	The VOCs, term stands for	•				
		(a) volatile organic compounds	(b) visible organic compounds				
		(c) versatile oxygenated compounds	(d) none of these				
	5. The presumptive tests, cobalt thiocyanate is used for detection of						
	5.		(b) cocaine				
		(a) marijuana (c) heroin	(d) hallucinogens				
		(c) neroni	(a) nanucinogons				
	6.	Duquenois-Levine reagent for marijuana gives color for positive drug test.					
		(a) purple	(b) blue				
		(c) yellow	(d) orange				
	7	Friedel-Crafts alkylation is carried ou	t in presence of antalyst				
	7.	(a) NaOH	(b) AlCl ₃				
	•	(c) Al(OH) ₃	(d) NaCl				
		(C) Al(OH)	(4) (140)				
	8.	A Knoevenagel condensation is a	reaction.				
		(a) nucleophilic addition	(b) electrophilic addition				
		(c) nucleophilic elimination	(d) electrophilic elimination				
Q.2	Answer the following questions. (Any seven)						
	1.						
	2.	Write a short note on: Generic drugs.					
	3.	Explain the role of FDA IND review					
	4.	How the DDT is going to affect envir					
	5.	What are the polycyclic aromatic hyd	rocarbons (PAHs)?				
	6.	Explain the term: Poisoning.	no veggant that your fou datastics of manifesta				
	7. 8.	Explain the Doebner modification.	ne reagent that uses for detection of marijuana.				
	8. 9.	How the Enzymes and biocatalysts w	orks? Evolain				
	2.	110 W the Enzymes and blocatalysts w					
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Q.3	A	Explain the various clinical research phases.	06
	В	Give a brief account on Medicine, and classify into various classes as per its action.	06
		<u>OR</u>	
	В	What are the Agrochemicals? Write a note on 2,4-dichlorophenoxyacetic acid.	06
Q.4	A	Give details on the twelve principles of green chemistry.	06
	В	What are the Chlorofluorocarbons (CFCs)? What are the replacements for Chlorofluorocarbons (CFCs)?	06
•		<u>OR</u>	
	В	Explain the detail role of Endocrine disruptor on environment.	06
Q.5	A	Write a note on following drugs of abuse : (i) Heroin (ii) Cocaine and (iii) Alcohol.	06
(-	В	What are the instrumental methods that uses for designing drugs. Discuss the designer drug in detail.	06
		<u>OR</u>	
	В	Discuss the method for fingerprints visualization.	06
Q.6	A	Explain Friedel-Crafts alkylation in detail with mechanism.	06
	В	What are the phase transfer catalysts? Explain with example.	06
		OR	
	В	Give a brief account on Knoevenagel condensation.	06
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