Second Semester B. Pharm. Examination

PHARMACEUTICAL ORGANIC CHEMISTRY-I

Paper - BP 202 T (USC - 35340)

P. Pages: 3 Time: Three Hours] [Max. Marks: 7:				
1.	(A)	Atte	empt following multiple choice questions :-	
		(1)	The functional group contained in compound $CH_2 = CH_2$	H_2 is
			(a) ester (b) ketone (c) alkene (d) alc	ohol
		(2)	An alkane with seven carbon atoms contains — hydro	ogen
			(a) 16 (b) 14 (c) 20 (d) 18	
		(3)	Which of following is monohalogen derivatives of alkar	ne ?
			(a) CCl_4 (b) $CHCl_3$ (c) CH_2Cl_2 (d) C	H ₃ Cl
		(4)	Alkyl halide undergo	
			(a) Electrophilic substitution reaction	
			(b) Nucleophilic substitution reaction	
			(c) Nucleophilic addition reaction	
			(d) Electrophilic addition reaction.	
		(5)	Optical activity in compound is detected and measured	by
			(a) Calorimeter (b) Polarimeter (c) Spectrometer (d)	Thermometer
		(6)	The cumbustion of alkane produces CO ₂ and ——	
			(a) SO ₂ (b) H ₂ O (c) CO (d) Nor	ne of these
		(7)	Which of following method is used for preparation of	alkene ?
			(a) Hydrogenation of alkene or alkynes	

	(b) Wurtz synthesis
	(c) Decarboxylation of acids
	(d) All of above.
	(8) — give slow and reversible reaction with alkene (a) F ₂ (b) Cl ₂ (c) Br ₂ (d) I ₂
	(9) SN' reaction is —— step reaction (a) Two (b) One (c) Three (d) Four
	(10) Alkanes are also known as
	(a) Paraffins (b) Glycols (c) Glycerols (d) None of above
(B)	Answer the following:—
	(i) Define enantiomers with examples.
	(ii) Give the structure of salicylic acid
	(iii) Draw the structure of 2 – methyl propane – 2 – $0l$
	(iv) Define alkane. Give their five examples.
	(v) Write the uses of ethanol.
2. Lor	ng answer questions (Answer any Two) :
(1)	What is nuetrophillic substitution? Describe SN1 reaction with its stereochemistry.
(2)	Define hybridization. Enlist types of hybridization. Describe SP ³ hybridization.
(3)	What is Markonikov's and anti Markonikov's rule? Explain in detail E ¹ reaction and its mechanism.
3. Sho	ort answer questions (solve any Seven) :
. (1)	Explain halogenation of alkane.
(2)	Discuss method of preparation of alcohol.
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- (3) Explain reaction of conjugated dienes.
- (4) Explain about Sp² hybridization.
- (5) Discuss about Diel's Alder reaction.
- (6) Explain optical isomerism.
- (7) Discuss about functional and positional isomerism.
- (8) Give details about aldol condensation.
- (9) Write different uses of alkanes.

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