SLR-TV - 6

Seat	Set	D
No.	301	

B.Pharmacy (Semester – II) (New CBCS) Examination, 2018 PHARMACEUTICAL ORGANIC CHEMISTRY – I

	PHARMA	CEUTICAL OR	GANIC CHEWIS	SIRY-I		
-	d Date : Monday, 10 2.30 p.m. to 5.30 p.			Max. Marks	3 :75	
1. Mu	ıltiple Choice Questi	ions:			20	
1)	Victor meyers test	is not given by				
	a) (CH ₃) ₃ COH		b) C ₂ H ₅ OH			
	c) (CH ₃) ₂ HCOH		d) CH_3 CH_2 CH	I ₂ OH		
2)	In Diels – alder rea 100°C to form Tetr			ed with		
	a) Acroline	b) Aniline	c) Acytyline	d) Salicylate		
3)	Propadiene $CH_2 =$	$C = CH_2$ is				
	a) Cumulated diene		b) Conjugated diene			
	c) Isolated diene		d) None of above			
4)	Isobutyl group is w	hich type of an al	kyl group			
	a) Primary	b) Secondary	c) Tertiary	d) None		
5)	According to anti M presence of peroxi		when propylene	reacts with HBr in		
	a) n – propyl brom	ide	b) Isopropyl bro	omide		
	c) Butyl bromide		d) Isobutyl broi	mide		
6) Which of the following compound w reaction?		ould react most ra	apidly in an SN ₂			
	a) CH ₃ CH ₂ I		b) $CH_2 = CHI$			
	c) $(CH_3)_2$ CHI		d) $(CH_3)_3$ CI			
7)	1, 2 dibromo ethane is formed by the reaction between					
	a) $CH_2 = CH_2$ and	$Br_{\!{}_2}$				
	b) Acetylene with	excess of HBr				
	c) Ethylene with ex	xcess of HBr				
	d) 1, 2 dichloro eth	nane with Br ₂				

8)	What is the IUPAC name of given structure $CH_3 - CH = CH - CH_2 - OH$					
	a) 2 - buten - 1 - 01		b) 2 - buten - 4 - 01			
	c) 2 - buten - 2 - 01		2 - butan - 4 -	01		
9)	Less basic amine of the following					
	a) $CH_3 - Ar - NH_2$	b)	$Ar - NH_2$			
	c) $NO_2 - Ar - NH_2$	d)	$R - NH_2$			
10)	Tollen's reagent can be used to distin	ngui	ish			
	a) Aldehydes and higher ketones	b)	Aldehydes and	lower ketones		
	c) Aldehydes and Ketones	d)	Neither			
11)	2-bromo butane reacts with alcoholic	KC)H to give			
	a) 1 – butene b) 2 – butene	c)	1 – butenol	d) 2 – butane		
12)	Alcohols reacts with PCI ₅ to give					
	a) Alkene b) Alkyl halide	c)	Acid	d) None of these		
13)	Cross cannizzaro's reaction is given	by				
	a) C ₆ H ₅ CHO, HCHO	b)	C ₆ H ₅ CHO, CH ₅	₃ CHO		
	c) CH ₃ CHO, HCHO	d)	All of above			
14)	Which of the following is strongest ac					
	a) Water	,	Formic Acid			
	c) Acetic acid	•	Propanoic acid	_		
15)	In Hofmann's method for separation of used is	of 1	°, 2° and 3° ami	nes, the reagent		
	a) acetyl chloride	b)	diethyl oxalate			
	c) nitrous acid	d)	none of above			
16)	s) Which of the diazonium salt is most stable					
	a) aryl diazonium salt	b)	alkyl diazonium	salt		
	c) cyclo alkyl diazonium salt	d)	None of above			
17)	Primary alcohol is obtained by					
	a) Hydration of alkene	b)	dehydration of	alkenes		
	c) Dehydrogenation of alkenes	d)	None of above			
18)	Benzylamine reacts with nitrous acid	to f	orm			
	a) Azo benzene	b)	Benzyl alcohol			
	c) Benzene	d)	Phenol			



19)	Alkyl	halides	almost	insoluble	in	water	because
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- a) They have low polarity
- b) They are covalent compound
- c) They do not form hydrogen bond with water
- d) None of above

20)	SN, mechan	ism proceeds	intermediate state

a) Free radical

b) Carbonium ion

c) Pentavalent transition

d) Carbanion state

2. Answer **any seven** of the following:

 $(7 \times 5 = 35)$

- i) Write any five chemical reactions of aliphatic amines.
- ii) Write methods of preparation of alcohols.
- iii) Explain any five chemical reactions of alkenes.
- iv) Write methods of preparation of 1, 3, butadiene.
- v) Write chemical reactions of alkanes.
- vi) Explain any four methods of preparation of carboxylic acids and explain effect of substituent on acidity.
- vii) Write methods of preparations of aldehydes and ketones.
- viii) Write a note on SN₁ and SN₂ reactions of Alkyl halides.
- ix) Draw the structures from given IUPAC names or common names
 - i) 2 oxo 3 methyl pentane
 - ii) 2 methyl 2 phenyl heptanol
 - iii) 5 hydroxy hexanoic acid
 - iv) 2 butanoic acid
 - v) Isobutyl alcohol.

3. Solve any two:

 $(10 \times 2 = 20)$

- 1) Write mechanism, reaction, conditions and criteria along with applications of following:
 - i) Cannizzarro's reaction
 - ii) Benzoin reaction.
- 2) How will you separate a mixture primary, secondary and tertiary alcohols.
- 3) Explain in detail E_1 and E_2 reaction.

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