PP SAVANI UNIVERSITY
Fifth Semester of B.Sc. Examination
Dec Jan 2020-21
SSCH3070- Organic Chemistry VI
Time: 10:00 AM -12:30PM

31.12.2020, Thursday

Ketone

Maximum Marks: 60

Q.1		(20)
1	Green Chemistry reduces the and protects the environment.	
	A Temperature . B Air	100.00
	C Water	
	D Pollution	
	D Tollation	
2	Which are greener than the conventional methods?	
	A Electromagnetic waves	
	B Ultra violet waves	
	C Micro waves	
	D Radio waves	
3	What is the starting material for nylon 6-6?	Auter appr
	A Adipic acid	
	B Acetic anhydride	
	C Nitric acid	
	D 2-methyl propyl benzene	
4	In green synthesis of Acetaldehyde which catalyst can be used?	
	A Ni/Co	
	B Pd/Cu	
	C Ni/Cu	- Ander Alle-
	D Pd/Co	
5	Which Product obtained by the dehydration of sugars?  A Catechol  B Citral  C Furan	
	D Furfural	
6	Catechol is synthesized by hydroxylation of?	
U	A Alcohol	
	B Acetone	
	C Phenol	
	D Benzene	
	<b>D</b> Belizene	
7	The chemical formula of Methyl methacrylate is?	
	A CH <sub>2</sub> =C(CH <sub>3</sub> )COOCH <sub>3</sub>	
	B CH <sub>3</sub> =C(CH <sub>3</sub> )COOCH <sub>2</sub>	
	C CH <sub>2</sub> =C(CH <sub>3</sub> )COOCH <sub>2</sub>	
	D CH <sub>2</sub> =C(CH <sub>3</sub> )COOCH <sub>4</sub>	
8	Which product obtained by bromination of toluene under conditions suitable for a free radical	-40 84
	halogenation?	
	A Benzyl chloride	
	B Benzyl bromide	
	C Ethyl bromide	
	D Phenyl dibromide	
9	Hofmann elimination is an elimination reaction of?	
	A Nitrogen	4000
	B Methyl	
	C Amine	

10	W	hich are is known and famous for its explosive properties?	1
	A	Amine	James of
	В	Ether	9
	C	Benzaldehyde	
	D	Nitroglycerin	
44			
11		Heterocyclic compound which prefix used for Sulfur?	
	A	Aza	
	В	Sulpha	
	C	Bora	
	D	Thia	-
12		terocyclic compounds are in which structure?	
	A	Hexagonal	
	В	Planner	
	C	Tetragonal	
	D	Triangle	
13	In I	Benzene ring having how many Pi- bond?	
10	A	6	10.00 V
	B	3	
	C		
	D	4	
	D		
14	TAZI	rich is the molecular formula of Pyrrole?	
	A	C <sub>4</sub> H <sub>5</sub> N	
	В	C <sub>3</sub> H <sub>4</sub> O	
	C	C <sub>4</sub> H <sub>4</sub> N	
	D		
	D	C <sub>3</sub> H <sub>5</sub> O	_
15	Wh	ich carbon-nitrogen bonds length in Pyridine?	
	A	1.37 Å	
	В	0.30 Å	
	C	2.37 Å	
	D	5.37 Å	
	D	3.37 A	
16	Nar	ne the reaction dehydration of 1,4- diketone with P <sub>2</sub> S <sub>5</sub> (phosphorous Pentasulphide) gives	
	der	ivatives of thiophene	
	A	Pall-Knorr synthesis	12.7
	В	Oxidation	1994 80
	C	Nitration	
	D	Hantzsch Synthesis	
		Translation by Italical	
	127.5	and the state of t	
17	Wh	en furan is treated with a mixture of HCN and HCl in the presence of Lewis acid catalyst	
	AIC	3 we get?	
	A		
		сно	
	В		
	D		
		о — с.с.н,	
	С		
		Ö SO3H	
	D		
		Br Br	

## Which is the structure of Indole? 18

C

D

# 19 In presence of KMnO4 quinoline get oxidized to pyridine-2,3- dicarboxylic acid which on decarboxylation gives \_

- Pamitic Acid
- В
- Acetic Acid Benzoic Acid C
- Nicotinic Acid

### 20 Which is the structure of Sulphaguanidine?

# Section-B (Total Marks - 40)

## Q.1 Short Notes (attempt all four compulsory- 3 marks each)

(12)

- A Green Synthesis : Adipic Acid
- В Microwave assisted reactions in water: From Benzamide to Benzoic acid
- C Synthesis and uses of sulphonamides
- Synthesis Nicotinic acid from Quinoline D

# Q.2

(28)

- Explain in detail (attempt any four -7 marks each)
  What is Green Chemistry? Explain Twelfth Principal of Green Chemistry. A В Give the Microwave assisted reaction in solvents of following Compound.
  - a) Fries Rearrangement b) Claisen Rearrangement
- C Explain methods of preparation and Electrophilic Substitution Reactions of Furan.
- Explain Synthesis and Uses of Indole by **a)** The Fisher-Indole **b)** The Madelung route. Green Synthesis and uses of **a)** Paracetamol **b)** Benzyl Bromide D