5. Additional assignments and Tests

As a part of remedial work the students are given additional tests and assignments to reinforce the concept learnt in the class and improve performance in the university examinations.

Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati. 82PARTS COLLEGE / S.R.W. COLLEGE / S.G.S. ARTS COLLEGE			
Name of the Examination: Internal Exam Date 21/6/2018			
	Student: M. Tabhavi Roll No.: 392008029		
Class:	Sec Group: BBC Medium: EM Subject: CHG 19018 TP4		
No. of Ac	Iditional sheets used 2nd semester a.code:		
	Question paper		
	Long Antwers		
0	write important methods of preparation and properties of aircanes & [10 m]		
②	explain the Baeyen strain theory ! [10 M]		
(3)	what are the difference between yophilic		
400 m	and yorkebic solsing state (lom)		
- Walle	short prewers		
4	write about wortz and wortz fitting (5 M)		
	6 write about corey - trave synthesis		
5	what is hybridization a explain (5M)		
d'anniel de	answers"		
iduagnas	to the state of the state of		
(IA)	- Alkany are prepared by the following methods		
	by hydrogeration of allegres and alkeres Reduction of allegres and allegres		
21000	alkenes are prepared by the hydrogenation of		
We a	alleres or allegres in presence of nickel catalyst at 200 - 300c platinin or pallodium		

	- coogs w	
	(i) R-CH = CHy + thy _N	R-Cty-Ctt3
	Allcene	Alleane
	CH3-CH = CH2+H2 -1	Сн3-сн2-сн3
	200	-3oic
	propane	No 0-CH9-CH3
	Property -	alteure
	dkyne	
	CH3 -CECH +2H2 -	propane
	propyre	Propara
(6)	Cottors now a convenient	
	Bacyer's 1600	on -theeny
(2)		obchie Sell
(3)	Lyophilic an	d Lyophobic sels
\mathcal{P}	Lyophilic	Lyophobic
A COLON	B mant Derman	1 31 31 31 1 31 3 1 3 3 3 3 3 3 3 3 3 3
	1. These particles can't	uith our ultra nuivoscope
	be detented	ann aus office paravolage
	2. There are more	2. These are less stable
(M 3).	Stable	pro dense dine
	3. There are	3. These are 9 me verible
	reverible sols	School Sc
(1.81)	her viscosity is higher	Le. Almost equal
	Than the despension	1010
	medien/	- All anount the electricate
X	5. large amant	5. Cest amount we electrolyte
	is needed for	is sufficient for coagulation
	is needed to coagulation	milia no origin finish
120 Std 20	6. particles gre	6. Ley hydralid
13	rydicalid	Wall To
	7. There particly	7. There are houringa
	may be the -ve	definit charge.
	charge erro charge	A STATE OF THE STA

In some couses	han oborevie
8. perending on the	8. These shows electrophoresis
change try show	\$183819 to 18
eleutrophereils	10000000
	with the interest of the

short Answer 5M

Hybridization

The process of mixing of two more atomic orbitals with nearly eaval energy to give no-of identical orbitals is called hybridisalten.

I This gives the phase of the melecule for example one of orbital average with 89 orbital to give four sp3 hybride orbitals

The phases of the melecules on the basts of hybrid deallon follows.

Typeot hybridicalton	No of cuter orbitaly	shape Gnear	
SP.	2	linear	
sp2	3	triangle	
905	4	Tetrahediau	
dspb	4	plonar	
sp3 d	5	Trigonal	
963d2	6	69 pyramed octahedrai	
7174			
11393	1	pentagarai blippromid	\sim
		101 (Hellow -	

Jone points to rember about hybridization

1- only orbitals endergo hybridization het
electrons

- 2. The melecules are stable because of hybridization
 - 8- The electrons present with opposit spiry in hybrid orbitals.

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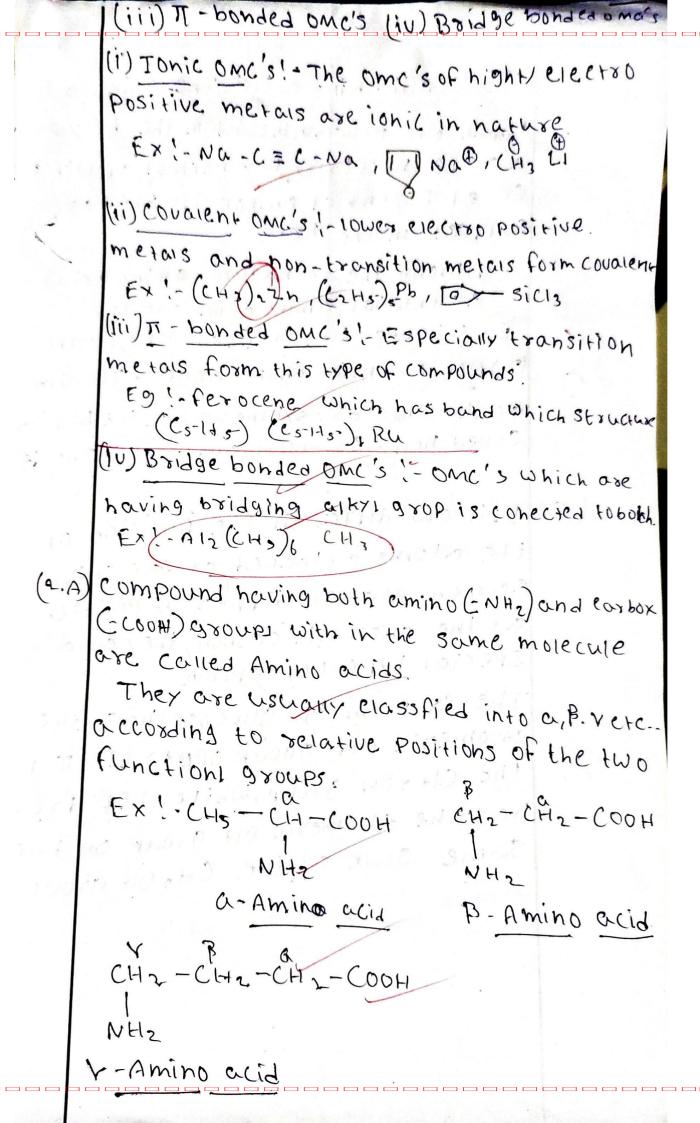
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Tirumaia Tirupati Devasthanams Degree & PG Colleges, Tirupati.

COLLEGE / S.G.S. ARTS COLLEGE	
same of the Examination: Internal Gram Date 06/07/2023	
Name of the Student: T- kushwanth Roll No: 321008040	
Class: I C82 Group: BBC Medium E. m Subject: CHEMISTRY	
Paper IV Somester - IV P	ape
No. of Additional sheets used O.Code:	
IV Semester 25	
course - IV	
Long Answer Quelton 10 m	
1. What are	
1. What are organometatic compounds?	
Chrix Classification	
of types of bonds till	
general method of present	.6
general method of preparetion amina	
J. MEXPlain Duron	
ii) explain kinani-fischer synthesis.	
3hort answers 5m	
4. Desive heat capacities and derive cp-cu=x	
5. Rat capacities and derive car	`
5. What are epimers and anomers. Answers	۷
Answers anomers.	
Ja 201 vg / 3 7 2 2 4 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(1.A) The compounds:	
(1.A) The compounds in which a metal atom	
of hydrocarbon are cells	3
metallic compounts	١ ٦
metallic compounds.	
000/92	

(M=Li, Na, K, 2h, cd, Hg...)

EXT-CH3 Lity CH3 MgCI, (CH3)2 Cd, (C2H5), Pb The following acetatates and alkoxides are not belonging to one ocatgory. Ex !- CH3-ONa, CH5-COONa, Cac2 ... nomenciature! CH3 Li - methys lithum CzHs-li-ethyllithium (C2H5) albitetra ethyl lead CZH . MgBK Ethyl manesium bromide Coult Phenyi lithium. Classification 1 ome's ore classified into simple one and mixed omc's. i) simple omc's! - The omc's in symmetric Which metal atom is bonded with same alkyl groups EX! - CH3Li CozHs-)2 Mg, C6Hs-Li, (C2Hs-) Pb These are classified in to symmetric and asymmetric ombis ii) mixed ome's! - These are formed by alkyland other groups aftached to the metal EXI- CH3Mgc1, C6145 MgBr (CH3) 2 Sicie, CH3)2 Si (OHZ) Classification of one's based on omasion Based on bond type one's are classifia in to four types (i) I onic ones (ii) covarent ones



(1) Essentil Amino acids! The anino acids which are not synthsised in the body at a rate hecessary for normal growth are Called Essential aminoacids they are supplied in the dieta.

Among the 25 natural amino excids. essentation amino acids are 10.

Ex!-vaine, Leucine, Isoucine, Lysine.

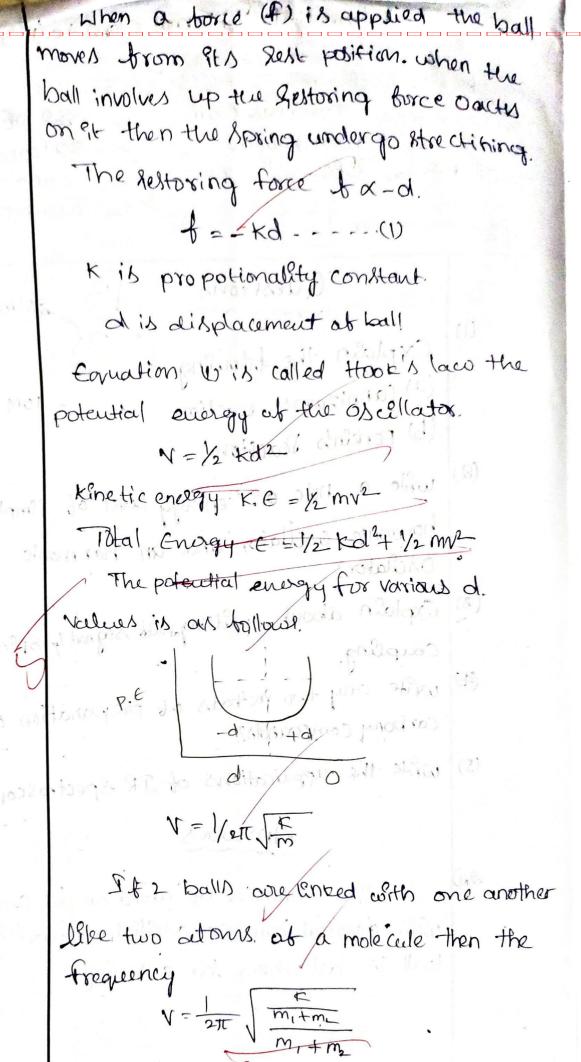
(2) Non essential amino acids! - The amino acids whice are synthesised in the body are Called non-essential amino acid. Thors.

(5.A) Epimers differ in the position of the atoms attoched at one chiral Carbon. Anomers differ in Position. at the anomeric carbon, they ar a special type out epimy.

The extorm of slucose has the onomesic OH DROND obbosite trom the CHIOH group, While the B from has the anomeric off group on the same side as the CH2OH group.

O ON WA

	Remedial Internal Cloro test 11-		
Tirumala Tirupati Devasthanams Degree & PG Colleges, Tirupati.			
Name of the Ex	amination: Internal Beam pate : 281-06-2923		
	udent: B. Panan Kalyan Roll No. 321008048 S.Sc Group: CBZ Medium: Cron Subject: CHC10715TP4		
Class :	Subject: CHC18718TV4 Paper IV Serrester Paper 5		
No. of Add	itional sheets used Q.Code:		
	Questions 13 as marks		
(1)	Explain the tollowing		
	(a) Cannizaros reaction — 10M (b) pertins reaction.		
(2)	write a note on energy level of simple_long		
	hormonic oscillator and an hormonic Oscillator?		
(8)	C. I.C.		
	Explain about splitting talk signed & sprins pin		
(4)	write any two mothers.		
	Coupling. Lorite any two methods at preparation at carbony compounds? -5M white the applications of IR spectroscopy?		
(2)	white the applications of IR spectroscopy?		
	Answers - 5m		
aa)			
	The vibrations of abond can be compared		
a its mark	with classical harmonic oscillator in which a		
	ball is attached to a spring.		
	£ £ .		
	The state of the s		
	6 d=0 (ROX + POSITION)		



Where min = te

$$V = \frac{1}{2\pi} \int_{V}^{K} \mu$$

$$V = \frac{1}{2\pi} \int_{W}^{K} \frac{1}{m_{1}m_{2}}$$

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$$V = \frac{1}{2\pi} \int_{W}^{K} \frac{1}{m_{1}m_{2}} \frac{1}{m_{1}m_{2}}$$

$$V = \frac{1}{2\pi} \int_{W}^{K} \frac{1}{m_{1}m_{2}} \frac{1}{m_{1}m_{2}}$$

$$V = \frac{1}{2\pi} \int_{W}^{K} \frac{1}{m_{1}m_{2}} \frac{1}{m_{1}m_{2}} \frac{1}{m_{1}m_{2}} \frac{1}{m_{1}m_{2}} \frac{1}{m_{2}m_{2}} \frac{1}{m_{2}m_{2}m_{2}} \frac{1}{m_{2}m_{2}m_{2}m_{2}} \frac{1}{m_{2}m_{2}m_{2}} \frac{1}{m_{2}m_{2}m_{2}} \frac{1}{m_{2}m_{2}m_{2}} \frac{1}{m_{2}$$

3A)

In NMR spectoum each signal sepresents one kind of protons of group at identical protons. But in many cases sinstead at single peak, a group at peaks observed. This is called splitting of Signals. Ufor example ethyl brould the City of bor intensional two types of protons are protons as of City and protons.

torapprotons and a quarter for CHz protons are observed.

Spin-spin coupling:

Spilithing depends upon the environment of the proton with respect to the other proton. Spin of proton couple with those of adjustent group.

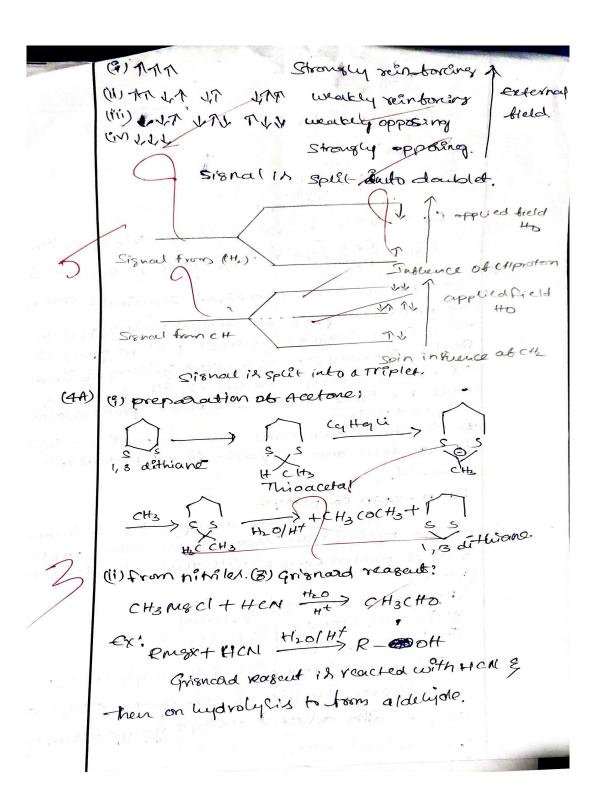
(i) AT Rein tording of Wi The not etterlive fectornal (iii) has opposing field.

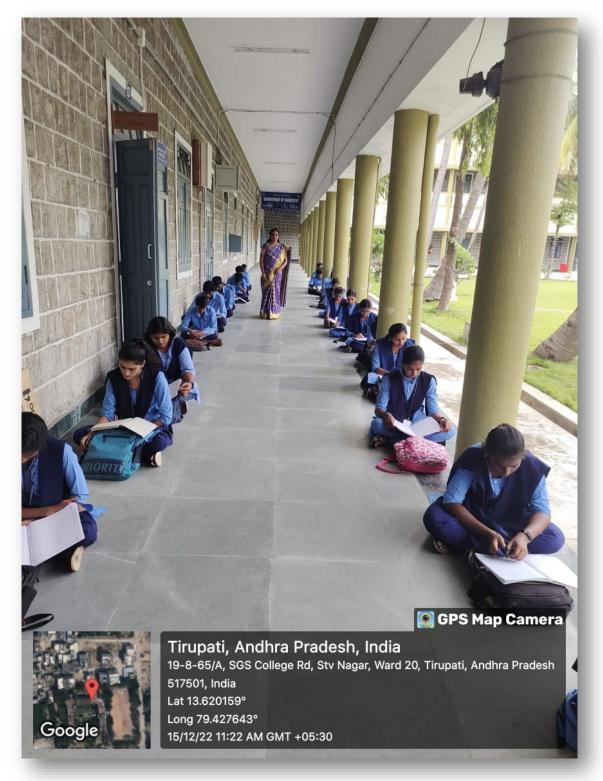
CHZ is developed with Entending ratio 1:1:1.

Similarly, the spin of the proton (-CHz) can

couple with adjecent metryle group intour ways

in external stilla.





Picture 1: Conducting study hours for remedial Students