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**COURSE CODE: GST 122** 

**DEPARTMENT: MBBS** 

MATRIC NUMBER: 19/MHS01/341

NAME	DLUWALE OLUFEMI ADESOLA
OF PI.	MBBS MBBS
	CHEM 102
MATRIC HO.	
1	Give the IUPAC names of the following compounds
i.	HCOCH -> Methanoic acid.
ìi.	
iti.	CH3 CH2 CH12 COOH => Butanoic acid.
iv-	HO2 C - CO2H => Ethanediore acid.
V.	CH3 (CH2)4 CODH => Hexanoic acid.
vi.	CH3CH = CHCH2CH2COOH => Hex-4- eneoic acid.
	CHECKLOOK COLONIA CHICKIO - DID ON COLONIA
2.	Discuss briefly the physical properties of carboxylic acids under the following
1.	Physical appearance: All simple aliphatic carboxylic acids up to 10 carbon atims.
	C10, are liquids at noom temperature. Anhydrous carboxylic acid, also known as
	acetic acid or glacial ethanoic acid freezes to an ice-like solid tochance
	below room temperature. Most other carboxylic acids are solid at room temperature.
n.	During points: As the relative molecular mass increases, so does the boiling point
	Aromatic carboxylic acids which are crystalline solids have higher method
	points their aliphatic counterparts of comparable relative more larger
1110	2014bility; Lower molecular mass carboxylic acids with up to sour couples often
	wer morecules are soluble in water due to their ability to form hudingen hands
	and be been molecules. As the acid's covalency increases (the felative molecular mass
	mereases and is nature increases), the water solubility of the gold decreases
	All carboxylic acids are soluble in organic solvents.
	Contract Aced Contract
3.	Write two industrial preparations of carboxylic acids.
I.	from Carbon (1) Oxide: Methanoic (formic) acid is man a
1111	and whose pressure to not gausous solution
	free carboxylic acid is liberated by careful reaction with tetraoxosulphate (VI) acid
	acid

		AND STATE OF THE PARTY OF THE P
-		CO NaOH > HCOONA H2504> HCOOH + NaHSO4
-		Methanoic acid
	-	From Ethanol: Ethanoic acid is obtained commercially by the liquid phase air
1	П.	From Ethanol: Ethanoic acid is obtained commerciany Oxidation of 5% solution of Ethanol to Ethanoic acid using Manganite (7) ethanoite Oxidation of 5% solution of Ethanol from Ethylene
-		catalyst. The Ethanal used is obtained from Ethylene.  (atalyst. The Ethanal used is obtained from Ethylene.  (CH3COO)2 Mn > CH3 (OOH)
		di. 112004 / 101 CF12 CF10
	4.	With equations and brief explanation, discuss the synthetic preparation of carboxylic acids are prepared by
		Alderides Carbonal
		Oxidation of Frimary Alcohols and Aldehydes using oxidizing agents (K2Cr2Ox/KMnOy)
		CH3CH2OH [O], excess acid/KMnO4 > CH3CHO [O] > CH3COOH
		Ethanol Ethanoic acid.
2004	100	and or an abig of course strately water (A consequence of the course
	51 i	reduction of Carboxylic Acid.
-	- 12	CH3 CH2 CH2 COOH LIALH4> CH3 CH2 CH2 CH2 OH
Wine.		Butanoic Adid Butanoi
I	1	pecarboxylation of Carboxylic Acid Martin Ma
-		for regard and datas adjustants are daidle then afford to Stomman
53		eduction of Carboxylic Acid.
nu co	1	+CH3CODH + 3Li ALH4 (C2H5)20 > (CH3CH20)4 ALLI+2Li ALO2+ 4H2+H20
- ch	100	Ethanoic acid
		4CH3CH2OH + ALCOH) + LIOH.
	2003	100 mas and you the land a state of Ethans of Ethans of Ethans
	(	CH3CH2CH2COOH LIALH4> CH3CH2CH2CH2OH
		Butanoic Acid Butanol
I.	Dece	urboxylation of Carboxylic Acid.
	CH	3CH2CH2COON9 + MaDH fuse > CH3CH2CH3+ Ma2CO3
2CH3CH2COOHa + 2H2D electrolysis/aq. CH3OH> CH3(CH2)2 CH3+ CO2 canodest 2NaOH+ H2callode		
	100	SUPERSONAL ASSOCIATION CONTRACTOR ASSOCIATION OF ASSOCIATION CONTRACTOR ASSOCIATION OF ASSOCIATI

Esterification of Carboxylic Acids.

CH3CODH + C2H5OH 

Ethanoic acid Ethanol 

Ethylethanoate