(A)

VCD - 23/11/19

2 1/2 Hours

Q.P. Code: USBT 102
Basic Chem II

Total Marks: 75

1.	Attem	nt all	quest	ions
1 .	LICCIII	JU 64 8 8	quest	10110.

- 2. All questions carry equal marks.
- 3. Draw neat labeled diagrams wherever necessary.
- 4. Use of log tables and non-programmable calculator is allowed.
- 5. For Q 2, Q 3 and Q 4 attempt A and B OR C and D.

Q 1	Do as directed (Any fifteen)	15
1.	Define configuration.	
2.	Define chirality.	
3.	Define asymmetric carbon atom.	
4.	The compound which have same molecular formula and same structure,	
	but differ in arrangement of atoms in space with respect to a double bond	
	are known as	
5.	The various temporary molecular shapes which result from the rotation of	
	groups about a single bond are called of a molecule.	
6.	State true or false. In Newmann projection formula, the front carbon atom	
	is represented by a point from which three bond radiate.	
7.	State true or false. In Fischer projection formula, a broken wedge	
	indicates the bond below the plane of the paper.	
8.	Define the term: Titration.	
9.	What is a TD pipette?	
10.	Define: Primary standard.	
11.	What is 'equivalence point' in titration?	
12.	Explain the term : Ostwald ripening.	
13.	List any two materials used for filtration in gravimetry.	
14.	Explain the term: Peptization.	
15.	Define Partition Coefficient.	
16.	Device used for sample application in Paper chromatography.	
17.	Process used to separate insoluble particles from liquid is	
	(Drying, Filtration, Extraction)	,
18.	cuvette is used for UV spectroscopy.	

	(Quartz, silica, plastic)	
19.	True or False. Tungsten lamp is used as source in colorimetry.	
20.	True or False. Chromatography cannot be used to purify volatile substance.	
0.0.	e medazup Ha Africa A Dese lautpu spacia and Peptin	
Q. 2 A	. The state of the types with suitable examples.	08
Q. 2 B	Comment on representation of configuration by Sawhorse projection formula.	07
	OR	
Q. 2 C	Describe Erythro, Threo and Meso isomers.	-08
Q. 2 D	Comment on conformations of Ethane and conformational isomerism with suitable diagram.	07
Q. 3 A	List the requirements for a chemical reaction for use in titrimetry.	08
Q. 3 B	Give an account of precipitation process in gravimetric analysis. OR	07
Q. 3 C	Explain the 'ion effect' on solubility of precipitates in gravimetry.	0.0
Q. 3 D	Give an account of classification of indicators.	08 07
Q. 4 A	Explain Thin Layer Chromatography.	08
Q. 4 B	What is Precipitation? Explain it in detail.	07
	OR	
Q. 4 C	What is Chromatography? Discuss Column Chromatography.	08
Q. 4 D	Explain the principle and instrumentation of Colorimeter.	07
Q. 5	Write Short notes on any three of the following	15
a.	Racemic mixture.	
b.	Enantiomers.	
c.	Back titration.	
d.	Mechanism of precipitate formation in gravimetry.	
e.	Types of Paper chromatography	