CENTRAL UNIVERSITY OF HARYANA SCHOOL OF ENGINEERING & TECHNOLOGY

1st Sessional Exam (May, 2020)

Paper Name	8	Chemistry
------------	---	-----------

Paper Code : BT CH 102A

Class

: B. Tech. (CSE)

Year/Sem : 1st/II

14035

Time : 1 hr

Max. Marks: 20

Note: Candidates are required to attempt all the questions.

	Question: 1	Α	В	C	D
	For a quantum wave particle, E =				D
i	The	416	hω	h ω/2	h k/2
	The walls of a particle in a box are supposed to be	Small but infinitely hard	Infinitely large but soft	Soft and Small	Infinitely hard and
ii	According to Molecular Orbital Theory, the shape and size of a molecular orbital depends upon	Shape and size of the combining atomic orbitals	Numbers of the combining	Orientation of the combining	All of the
iv	Energy band gap size for semiconductors is in the range eV.	1 -2 eV	atomic orbitals	atomic orbitals	mentioned
V	Fermi level for extrinsic semiconductors depends on	Donor element	2 -3 eV Impurity	3 -4 eV	> 4 eV
vi	The effective nuclear charge realised by Is electron of helium atom is	0.7	concentration	Temperature	AH
vii	Which one of the following statements about p orbitals is incorrect?	they are found in all principal energy levels	they have a dumb-bell shape	there are three types of p orbital	each p orbital can hold up to two
viii	depends upon	Number of positive charges	Shieding effect	Spin pair	electrons
ix	How many alcohols are structural isomers with the formula; C ₅ H ₁₁ OH?	20-2		repulsion	All of the above
X	If our eyes travel in counter-clockwise direction from the ligand of highest priority to the ligand of lowest priority, the configuration is	R-Configuration		T. Care	Z-Configuration

