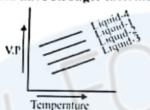


CHEMISTRY NMDCAT

(UNIT-4)

т	\mathbf{a}	PΙ	~	•
	u	rı	L	3

- LIQUIDS
- SOLIDS
- Q.1 Consider the following graph of vapour pressure Vs temperature, which of the following liquid have stronger intermolecular forces?



_			
a.	LIC	uid	•

b. Liquid-2

c. Liquid-3

d. Liquid-4

Which of the following does not favors the increasing of vapor pressure? Q.2

a. Increasing temperature

b. Increasing surface area

c. Decreasing intermolecular forces

d. All of these

In order to mention boiling point of water at 110°C, the external pressure should be Q.3

a. Between 760 torr to 1200 torr

b. 760 torr

c. Between 200 torr to 760 torr

d. Any value of pressure

Q.4 Which of the following is pseudo solid?

a. Graphite

b. Rubber

c. NaCl

d. All of these

In NaCl there are 8 Cl- lons at each corner of the cube. Each Cl- ion is shared Q.5 unit cells among

a. Two

b. Four

c. Eight

d. Six

Smallest unit of volume of a crystal, which shows all the properties of its pattern, is Q.6 known as a

a. Crystal Lattice

b. Unit cell

c. Unit length

d. Crystallite

Q.7 The systematic arrangement of atoms in a crystal is called lattice. It represents the structure of any substance, a lattice is of types

a. Two

b. Three

c. Four

d. Five

Q.8 Which of the following factors affect the shape of an ionic solid

a. Electrostatic forces of attraction

b. Radius ratio

c. Poor conductivity

d. All of these

Q.9 To form a crystal lattice of NaCl, each Na+ ion is surrounded by

b. 6 Cl*

c. 6CI°

d. 6 Cl

Q.10 Which of the following intermolecular forces hold the molecules together in solidified gases

a. Hydrogen bonding

b. Dipole-dipole interactions

d. All of these

PAGE 1 OF 4



1	KIPSIMITAN	cons ions of opposit	
•	released when g	ascous known as	
Q.11	The amount of energy released when g	b. Potential energy	
Q	give one more	i- ancrey	
	a. Bond energy	d. Kinetic crims is called	
	a. Bond energy c. Lattice energy The existence of an element in different	crystalline for the	
Q.12	The existence of an element in over	b. Isomorphism	
•	a. Polymorphism	d. Allotropy str	ucture
	c. Anisotropy	ecules in rigid but open	
Q.13	c. Anisotropy In ice hydrogen bonds hold water mole	b. Hexagonal	
	a. Cubic	d. Tetragonal	
	c. Triclinic Water has high heat of vaporization d	ue to extensive	
Q.14	Water has high heat of vapor ization		
	a. Covalent bonds	d. Debye forces	
	c. Hydrogen bonding Under 50 torr pressure glycerin boils	at a temperature	
Q.15	Under 50 forr pressure giyeerii bolin	b. Less than 290°C	
	a. More than 290°C c. Less than 200°C	d. Equal to 210°C	
Q.16	a. Simple cubic crystal	b. Body centered cubic crystal	
	and aubic crustal	d. Hexagonal close pack crystal	
	lodine is non-polar molecule, it exists	asat room temperatu	re
Q.17	a. Solid	b. Gas	
		d. Plasma	
0.40	Factor on which evaporation depends	s but vapour pressure does not	
Q.18	a. Temperature	b. Surface area	
	c. Intermolecular forces	d. Nature of liquid	
	fallowing is true?		
Q.19	and hydrogen bond and	higher boiling point than water	
	and and and and	has low boiling point than water	
	c. HF has strongest hydrogen bond and	has boiling point equal to water	
	d. None is true		
Q.20	Water has maximum density at	b. 0 °F	
	a. 39.2 °F	d. 32 "F	
	c. 4°F	d. 32 P	
Q.21	The molecules of sucrose form the	. M. Ingular agretale	
	a. Ionic crystals	b. Molecular crystals	
	c. Covalent crystals	d. Metallic structure	intermolecular
Q.22	c. Covalent crystals Which of the following is non-pola	r molecular solid with strongest	Inter interest
•	forces		
	a. Ice	b. Iodine	
	c. Glucose	d. Graphite	
	Molecular solids have		
Q.23		b. Metallic bond	
	a. Ionic bond	d. Van der Waal's forces	
20	c Covalent bond		PAGE 2 OF 4
55 5 10	Ten to A A Service Control of A		I WALL - STATE OF THE PARTY OF



14	KIPS ENTRY TESTS	Mg Mg Wg Wg Wg Wg S
•	TELL DIPHEPARATION	5 5 5 5 8 8 5 6 6 8
	Hydrogen bonding is most	
Q.24	a. NH3	b. C ₂ H ₅ OH
	a. NH3 c. H ₂ O	d. HF
0.25	Ice is less dense than water	at
Q.25	a4°C	b. 4°C
	2 0°C	d. 2°C
Q.26	In diamond each C-atom is	bonded to four 'C' atoms through at an angle of
Q.20	a. sp-sp overlapping, 109.5	b. sp ² – sp ² overlapping 109.5°
	c. sp ³ – sp ³ overlapping, 109	.5° d. sp³ – sp² overlapping, 109.5°
Q.27	Type of attractive forces i	n dry ice
Q.27	a. Ionic bond	b. Coordinate covalent bond
	c. Covalent bond	d. London dispersion forces
Q.28	Which of the following is	not molecular solid?
Q.20	a. Sucrose	b. Graphite
	c. Iodine	d. Ice
Q.29	Diamond is bad conducto	or because
Q.23	a. It has tight structure	
	L. to tone blink doneits:	
	o. There are no free electro	ons present in crystal of diamond to conduct electricity
	d. It is transparent to light	
	d. It is transparent to fight	are soluble in each other due to
Q.30	Acetone and entorotoria	n bonding b. Instantaneous dipole
	a. Intermolecular hydroge	d. All of the above
	c. Ion-dipole interaction	oiling point among hydride of VA group elements due to
Q.31	NH3 show a maximum to	oning point among ay
	a. Very small size of nitro	gen on pitrogen
	b. Lone pair of e present	on nitrogen
	c. Enhanced electronegati	ve character of introgen
	d. Pyramidal structure of	NH ₃
Q.32	The liquid which has m	aximum rate of evaporation at same temperature.
. 1	a. CCl4	≥ b. C2H3OH
	c. CH3COCH3	↓ d. C ₆ H ₆
Q.33	Which of the following	statements is correct about ionic solids?
Q.55	a. They have definite ged	ometric shape
	a. They have derinine got	and in pature
	b. They are non-direction	for a formulas due to their ionic nature
		e form of molecules due to their ionic nature
	d. All of these	had hard hydrogen bond and London
Q.34	Which of the followin	g solids possess covalent bond, hydrogen bond and London
•	dispersion forces	
	a. Dry ice	b. Silicones
		d. Ice unit cells
	c. Silica	tion in the unit cell of NaCl is shared amongunit cells
Q.35	The corner located Na	b. 8
WHEN PER	a. 4	d. 10
	PA MINA PANY	PAGE 3 OF 4

		ed from 23.7 torr to 700 torr, the boiling point
Q.36	When the external pressure is increas	ed from 23.7 torr to 700 torr, the boiling point
	of water increases iron.	h 25°C to 100°C
	a. 0°C to 98°C	d. 25°C to 98°C
-	c. 69°C to 98°C Which of the following is polar molecu	ılar solid
Q.37	Which of the following is posses	b. Ice
	a. Diamond	d. Table salt
O 18	c. lodine The substance that contains London of	lispersion forces only
Q.30	a. Phenol	d. Chloroform
0.39	c. Acetone Which of the following has highest bo	b Ye
	- V-	
	c. Ne	to the structure of ice. This is due to
Q.40	The hexagonal type empty spaces are	d. Ar e present in the structure of ice. This is due toatom of one water molecule and
	hydrogen bonding present between	
	atom of other water molecule	b. H, N
	a. H, H	d. O, O
	c. H, O	
Q.41		b. 266.6 pm
	a. 271.5 pm	d 9.6 nm
	c. 4.9 pm	oiling the water at room temperature is
Q.42	The external pressure required for b	b. 23.7 torr
	a. 1489 torr	d. 323 torr
	c. 700 torr Which of the following are generally	poor conductors of electricity
Q.43	Which of the following are generally	b. Covalent solids
	a. Ionic solids c. Metallic solids	d Molecular solids
	C. Metallic solids in which the par	rticles forming the crystals are positively and
Q.44	negatively charged ions are called	
	a. Ionic solids	b. Covalent solids
	A de a Ul a malfida	d. Molecular solids
	fallowing pairs of lig	uids, the first liquid has higher vapour pressure
Q.45	the sther liquid at the same ten	apperature with the different surface area
	a. Dimethyl ether and acetone	b. Ethanol and Ammonia
	a. Dimethyl ether and accione	d. Water and n-hexane
	c. Water and HF	gements usually represents the correct order of
Q.46	Which one of the following arrang	chienta asamy representation
	increasing strength?	a Dipole-Dipole force
	a. H-Bonding, London dispersion forc	cole force. H-bonding
	b. London dispersion force, Dipole-Di	a Dinala Dinala force
	c. London dispersion force, H-Bondin	g, Dipole-Dipole force
	d. Dipole-Dipole force, London disper	rsion force, H-bonding
Q.47	Which of the following process in	wolves a weakening of the attraction between
	particles?	1/(>\
	a. Condensation	b. Freezing
	c. Crystallization	d. Evaporation
Q.48	The food is cooked quickly in press	ure cooker because
	a. Heat is uniformly distributed	b. Boiling point of water rises
	c. Boiling point of water decreases	 d. Vapour pressure of liquid decreases
Q.49	At boiling point of a liquid, its vapo	
Q.47	a. Greater than external pressure	b. Less than external pressure
	The state of the s	d. No relationship
	c. Equal to external pressure	a. No telationship
Q.50	Hydrogen bonding is involved in	b. Classing action of determents
	a. Solubility of compounds	b. Cleansing action of detergents
	c. Biological molecules	d. All of these
ED 16		

hon-mat	1	
a home mit	25-C	
1-C	26-C	
2-b 3-a	27-d	
3-6	28-b	
4-b		
5-C	29-C	
6-b	30 - CI	
a 7- b	31-C	
8-d	32 - C	
9-d	33- d	11/
10-d	33- 4	
12-d	34- d	
12-4	35-b	
13-10	36-d	1
14-4	37-b	1
15-d	38-b	
16-0	39-b	
17-0		
18-b	40-C	
, 19-b	41- 0	10
	42-b.	
20-0	43-d	>1\\\) 1
21-6	44-9	
22-b	45-a	
23-d	46-6,	
24C	47-d	(
	48-b	
	49-6	
	50 - d	11



mdcatsociety@gmail.com