1/2021		Physical Chemistry	
P	hysical Chemistry		idekar amruta
	ur score: 19% (4.5/24) ration: 0:10:50	May 16, 2	1020, 12:07 p.m.
Do	n't worry, try again.		
1.	The change in state from solid to gas is		0 / 2 points
	Your Answer: I Incorrect Melting		
	○ Vaporization		
	✓ ○ Sublimation		
	O Condensation		
2.	Which of the following is / are Crystalline substance(s)?		1.5 / 2 points
100	Your Answer: Partially correct NaCl		
13	✓ □kci		
	≭ □ Glass		
	X ☐ Plastic		
3.	Half life of 1st order reaction is constant and is 0.693/k		0 / 2 points
	Your Answer: № Incorrect		
ğ	¥ ® False		
4.	Match the following	The tree of	1 / 6 points
	Your Answer: - Partially correct	14/2 N	
	💥 Condensatio 🤝 - Melting or Fusion Solid to lice	puid 1977	
	✓ Vaporization ✓ Liquid to Gas	150000000000000000000000000000000000000	
	🗶 Freezing 🤝 Sublimation Solid to Gas	VIN. 287	
	Melling or FL → Deposition Gas to Solid	- Choose and Door	
	💥 Deposition 🤝 - Condensation Gas to Liquid	Company of the Party of the Par	
	3¢ Sublimation ✓ → Freezing Liquid to Solid		
5.	Straight line eq. is (write equation without space)		0 / 2 points
	Your Answer: ★ Incorrect rate=k[A][B]		
	Correct Answer: y = mx+c		
6.	As temperature increased by 10 degrees, rate of reaction fold or 4 fold)	n increases by (Write any one Ans: 2 fold or 3	0 / 2 points

5/11/2021	Physical Chemist	iry	
	We know, t11		
7.	Pressure of the gas is directly proportional to the Volume of gas at con-	st, Temp. and n. This is	2/2 points
	Your Answer: ✓ Correct ○ Charle's law		
8	✓ ® Boyle's law		
	O Grahm's law		
	O Avogadro's hypothesis		
8.	Volume of the gas is directly proportional to the Temperature of the ga	s at const. Pressure and n. This is	0 / 2 points
	Your Answer: Incorrect Charle's law		
	○ Boyle's law		
	○ Grahm's law		
>	Avogadro's hypothesis		
9.	Rate of diffusion of gas is inversely proportional to the square root of M	olar mass of the gas, this is	0 / 2 points
>	Your Answer: Incorrect © Charle's law		
	O Boyle's law		
~	Grahm's law of diffusion		
	O Avogadro's hypothesis		
10.	Equal volumes of all gases contain equal number of gas molecules at g	iven temperature (T = constant)	0 / 2 points
	Your Answer: ☐ Incorrect ☐ Charle's law		
	○ Boyle's law		
×	® Grahm's law of diffusion		
4	O Avogadro's hypothesis		

Your Answer: × Incorrect

/11/2021	Physical Chemistry	
	4fold	
7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp, and n. This is	0 / 2 points
	Your Answer: Note that the state of the s	
	✓ ○ Boyle's law	
	O Grahm's law	
	O Avogadro's hypothesis	
8.	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	0 / 2 points
	Your Answer: Incorrect Charle's law	
	O Boyle's law	
	○ Grahm's law	
	₩ Avogadro's hypothesis	
9.	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	0 / 2 points
	Your Answer:	
	★	
	✓ ○ Grahm's law of diffusion	
	O Avogadro's hypothesis	
10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	0 / 2 points
	Your Answer: ☐ Incorrect ☐ Charle's law	
	O Boyle's law	
	Scrahm's law of diffusion	
	✓ ○ Avogadro's hypothesis	
	The state of the s	

fold or 4 fold)

Your Answer: - Correct

6. As temperature increased by 10 degrees, rate of reaction increases by (Write any one Ans. 2 fold or 3 2 / 2 points

2021	Physical Chemistry	
Ph		ooja Vijay irale
You	r score: 98% (23.5/24)	5, 2020, 6:31 a.m.
Dur	ation: 0:06:54	
Con	gratulations.	
1.	The change in state from solld to gas is	2 / 2 points
	Your Answer: ✓ Correct ✓ Melting	
	○ Vaporization	
	Sublimation	
	O Condensation	
2.	Which of the following is I are Crystalline substance(s)?	1.5 / 2 points
,	Your Answer: Partially correct NaCl	
,	r □ kci	
	Glass	
	C Plastic	
3.	Half life of 1st order reaction is constant and is 0.693/k	2/2 points
	Your Answer: ✓ Correct ⑥ True	
	○ False	
4.	Match the following	6/6 points
	Your Answer: ✓ Correct	
	✓ Melting or Ft. ✓ Solid to liquid	
	✓ Sublimation ✓ Solid to Gas	
	→ Deposition ✓ Gas to Solid	
	Condensatio V Gas to Liquid	
	✓ Freezing ✓ Liquid to Solid	
5.	Straight line eq. is (write equation without space)	2 / 2 points
	Your Answer: ✔ Correct Y=mx+c	
6.	As temperature increased by 10 degrees, rate of reaction increases by (Write any one Ans: 2 fold or 3 fold or 4 fold)	2 / 2 points
	Your Answer: ✓ Correct 2 fold	

/11	2021	Physical Chemistry	
	7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp, and n. This is	2/2 points
		Your Answer: Charle's law	
		✓ ® Boyle's law	
		○ Grahm's law	17
		O Avogadro's hypothesis	
	8,	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	2 / 2 points
		Your Answer: ✓ Correct ✓ ⑥ Charle's law	
		○ Boyle's law	
		○ Grahm's law	
		○ Avogadro's hypothesis	
	9,	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
		Your Answer: Charle's law	
		C Boyle's law	
		❤ ® Grahm's law of diffusion	
		O Avogadro's hypothesis	
	10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	2 / 2 points
		Your Answer: Charle's law	
		○ Boyle's law	
		O Grahm's law of diffusion	
		✓ ⑥ Avogadro's hypothesis	



Your Answer: V Correct

5/11/20	21	Physical Chemistry		5/11/2021	Physical Chemistry	
1	Physical Chemistry		Saniya Syed 120, 5:57 p.m.	7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp, and n. This is	2/2 points
	Our score: 100% (24/24) Duration: 0:05:16	May 10, et	20, 3.37 p.m.		Your Answer: ✓ Correct ○ Charle's law	
(Congratulations.			•	® Boyle's law	
1	. The change in state from solid to gas is		2 / 2 points		○ Grahm's law	
	Your Answer: ✓ Correct ○ Melting				O Avogadro's hypothesis	
	Ovaporization			8.	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n, This is	2 / 2 points
	✓ ® Sublimation				Your Answer: Correct	
	O Condensation				₱	
					O Boyle's law	
2	. Which of the following is / are Crystalline substance(s)?		2 / 2 points		○ Grahm's law	
	Your Answer: ✔ Correct ✔ ☑ NaCl				Avogadro's hypothesis	
	✓ EZ KCI			9.	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
	X □ Glass				Your Answer:	
	≭ □ Plastic				O Charle's law	
					○ Boyle's law	
3	. Half life of 1st order reaction is constant and is 0.693/k		2 / 2 points	`	® Grahm's law of diffusion	
	Your Answer: ✓ Correct ✓ ® True				Avogadro's hypothesis	
	OFalse			10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	2 / 2 points
					Your Answer: ✓ Correct	
4	. Match the following		6 / 6 points		Charle's law	
	Your Answer: 🎺 Correct				O Boyle's law	
	✓ Melting or Ft. ✓ Solid to liquid		Market and other and		Grahm's law of diffusion	
			1432		Avogadro's hypothesis	
			13/ 2000	1		
	→ Deposition → Gas to Solid		19/ 10/19	1		
	Condensatio Gas to Liquid		10 18	7/		
			\$ 00 00 00 TO	<i>f</i> -		
5	Straight line eq. is (write equation without space)		2 / 2 points			
	Your Answer: ✔ Correct y=mx+c					
6	As temperature increased by 10 degrees, rate of reaction fold or 4 fold)	n increases by (Write any one Ans: 2 fold or 3	2/2 points			
	Your Answer: Correct 2fold (doubles)					

5/1	1/2021	Physical Chemistry	
	Ph		Prakash Gavhane
		r score: 100% (22/22) (2 possible points pending) tition: 0:04:45	20, 2020, 1:34 p.m.
	Con	gratulations.	
	1.	The change in state from solid to gas is	2 / 2 points
		Your Answer: Correct Melting	
		○ Vaporization	
		Sublimation	
		Condensation	
	2.	Which of the following is / are Crystalline substance(s)?	2/2 points
	,	Your Answer: ✓ Correct ✓ NaCl	
	4	∕ ⊠ KCI	
	:	Glass	
	:	Plastic	
	3.	Half life of 1st order reaction is constant and is 0.693/k	2/2 points
	,	Your Answer: Correct True	
		○ False	
	4.	Match the following	6 / 6 points
Total St.		Your Answer: ✓ Correct	
(5)	1		
	Bit	✓ Vaporization ✓ Liquid to Gas	
15	In !	✓ Sublimation ✓ Solid to Gas	
V		→ Deposition → Gas to Solid	
and a little	1 10	✓ Condensatio ✓ Gas to Liquid	
ar season		→ Freezing ✓ Liquid to Solid	
	5.	Straight line eq. is (write equation without space)	2 / 2 points
		Your Answer: → Correct	
		y=mx+c	
	6.	As temperature increased by 10 degrees, rate of reaction increases by (Write any one Ans: 2 fold or fold or 4 fold)	3 7/2 points
		Your Answer: ? Awaiting score	
		2 folds	

5/11/2021

11/2021	Physical Chemistry	
7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp. and n. This is	2 / 2 points
	Your Answer: Correct Charle's law	
•	Boyle's law	
	O Grahm's law	
	O Avogadro's hypothesis	
8,	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	2 / 2 points
	Your Answer: 🎺 Correct	
•	♠ ⑥ Charle's law	
	O Boyle's law	
	○ Grahm's law	
	O Avogadro's hypothesis	
9.	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
	Your Answer: ✓ Correct Charle's law	
	O Boyle's law	
	O Avogadro's hypothesis	
10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	2 / 2 points
	Your Answer: ✓ Correct C Charle's law	
	O Boyle's law	
	O Grahm's law of diffusion	
	Avogadro's hypothesis	

5/11/2021	Physical Chemistry	
P	nysical chemistry	cash Gavhane
	ur score: 0% (0/22) May 21, aration: 1 day, 2:59:38	2020, 4:37 p.m.
Do	n't worry, try again.	
1.	The change in state from solid to gas is	0 / 2 points
	Your Answer: O Blank O Melting	
	○ Vaporization	
	✓ ○ Sublimation	
	O Condensation	
2.	Which of the following is / are Crystalline substance(s)?	0 / 2 points
	Your Answer: Ø Blank ✓ □ NaCi	
	✓ □KCI	
	□Glass	
	Plastic	
3.	Half life of 1st order reaction is constant and is 0.693/k	0 / 2 points
	Your Answer: Ø Blank ✓ C True	
	○ False	
4.	Match the following	0 / 6 points
	Your Answer: 0 Blank	
	💥 💛 - Melting or Fusion Solid to liquid	
	★ → Vaporization Liquid to Gas	
	🔀 🗸 Sublimation Solid to Gas	
	💢 💛 - Deposition Gas to Solid	
	β¢ ✓ Condensation Gas to Liquid	
	💥 💛 Freezing Liquid to Solid	
5.	Straight line eq. is (write equation without space)	0 / 2 points
	Your Answer: Ø Blank Correct Answer: y = mx+c	
6.	As temperature increased by 10 degrees, rate of reaction increases by (Write any one Ans: 2 fold or 3 fold or 4 fold)	0 / 2 points
	Your Answer: Ø Blank	
7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp. and n. This is	0 / 2 points

5/11/2021	Physical Chemistry	
	Your Answer: 0 Blank Charle's law	
٧	O Boyle's law	
	O Grahm's law	
	O Avogadro's hypothesis	
8.	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	0 / 2 points
•	Your Answer; Ø Blank C Charle's law	
	○ Boyle's law	
	C Grahm's law	
	O Avogadro's hypothesis	
9,	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	0 / 2 points
	Your Answer: Ø Blank Charle's law	
	O Boyle's law	
V	Grahm's law of diffusion	
	O Avogadro's hypothesis	
10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	0 / 2 points
	Your Answer: 0 Blank Charle's law	
	O Boyle's law	
	Grahm's law of diffusion	
~	O Avogadro's hypothesis	



	/22		

Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21

Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21

+ R	equired
1.	Email *
2.	1. The correct increasing order of pKa value for (A) Phenol, (B) 2-Nitrophenol, (C) 4-Nitrophenol, (D) 2-methoxyphenol is 1. The correct increasing order of pKa value for (A) Phenol, (B) 2-Nitrophenol, (C) 4-Nitrophenol, (D) 2-methoxyphenol is
	Mark only one oval.
	A <b<c<d< td=""></b<c<d<>
	() B < D < C < A
	C <b<a<d< td=""></b<a<d<>
	None of the above

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3,	2. Boiling point of 2-Nitrophenol will be lower than than 4-nitrophenol *		2 points
	Mark only one oval.		
	True		
	False		
	Boiling point will be same.		
4.	3. Isopropylbenzene on treatment of Oxygen followed by action of acid gives *		2 paints
	Mark only one oval.		
	Phenol and Acetone		
	Acetone and methylbenzene		
	Butanone and Phenol		
	None of the above		
5.	4. Phenol and methyl sulphate react to give *		2 points
	Mark only one oval.	10	
	Toluene		
	Anisole		
	Both Anisole and Toluene		
	None of the above		

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2/9



Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21	8/23/72, 5:53 PM Unit Test-1_S,Y,B,Sc (Organic Che	mistry) 2020-21
2 pents	8. 7. Phenois on treatment with conc. H2SO4 at low temperature gives *	2 pts
	Mark only one oval. m-phenolsulphonic acid o-phenolsulphonic acid p-phenolsulphonic acid Mixture of all the above three	£ par
s are soluble in water; B) Phenols are soluble in organic solvents * 2 points .	9. 8. Phenois on treatment with bromine water gives * Mark only one oval.	2 pon
	3-bromobenzene	
		8. 7. Phenols on treatment with conc. H2SO4 at low temperature gives * Mark only one oval. m-phenolsulphonic acid o-phenolsulphonic acid p-phenolsulphonic acid Mixture of all the above three s are soluble in water; B) Phenols are soluble in organic solvents * 2 points 9. 8. Phenols on treatment with bromine water gives *

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22.553 PM	Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21		8/23/22, 5:53 PM	Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21	
10.	9. Phenyl acetate on fries rearrangement gives *	Z points	13. 12. Produc	t of benzoin condensation is *	2 points
	Mark only one oval.		Mark only o	ne oval.	
	2-hydroxy acetophenon		Acylo	in	
	3-hydroxy acetopheno		Enzi	sin	
	4-hydroxy acetophenon		◯ Benze	olc acid	
	Mixture of 2- and 4-hydroxy acetophenon		None	of the above	
11.	10. Phenol on action of i. aq. NaOH, ii. CO2 and iii. dil. HCl gives *	2 points	14. 13. Name t	he product of aldol condensation of acetaldehyde	2 peints
1.15		z ponis.			2 point
	Check all that apply.		Mark only o	one oval.	
	p-hydroxy benzolc acid		But-2	enal	
	Benzoic acid salicylic acid		() Butar	ne-2,4-dione	*
	Phenyl acetate		Butyr	aldehyde	
			None	of the above	
12.	11, Substrate and product in Gatterman Koch reaction is (respectively) *	2 points			
	Mark only one oval.				
	Benzene and Benzaldehyde				
	Phenol and acetaldehyde				
	Benzaldehyde and phenol				
	None of the above				



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13/22 5:53 PM	Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21		8/23/22, 5:53 PM	Unit Test-1_S.Y.B.Sc (Organic Chemistry) 2020-21	
15.	14. Knoevenangel Reaction best proceeds with #	2 points	17. 16.	i. Baeyer Villigar oxidation gives 4	
	Mark only one oval.			SIND COMPANIAN SERVICE SERVICE CONTROL OF SERVICES AND SE	2 paints
	Aliphatic aldehydes		Ma	ark only one oval.	
	Allphatic ketones		C	Acid from carbonyl compound	
	Aromatica aldehydes		<u></u>	? Ester from carbonyl compound	
	Aromatic ketones		1	Both above	
	The state of the s		C	None of the above	
16.	15. Mannich reaction occur between *	2 points	22 7.2		
	Mark only one oval.	2 points	18, 17.	. In general, Electrophilicity of carbonyl Carbon of aldehyde is more than that of ketone *	2 points
	Week's		Ma	rk only one oval.	
	Aldehyde and Amine only			True	
	Aldehyde and Ketone only			False	
	Amine, Aldehyde and Ketone				
	Amine and Ketone only				
			19, 18,	Catalyst and co-catalyst in Gatterman Koch reaction are *	2 points
			Mar	rk only one oval.	
			- distan	AICI3 and CuCl	
				CuCl and AICI3	
			0	ZnCl2 and CuCl	
				CuCl and ZnCl2	
				photo and a second	
Description of the Contract of					

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8/23/22 5:53 PM	Unit Test-1_S.Y.B.Se (Organic Chemistry) 2020-21	
20.	19. Substrate for Gatterman Reaction is *	2 points
	Mark only one oval.	
	Phenol	
	Benzene	
	None of the above	
21.	20. In Baeyer Villigar oxidation reaction the migratory aptitude follow the trend $\mbox{^{s}}$	2 points
	Mark only one oval.	
	Tertiery > Secondary > Primary	
	Tertiery > Secondary < Primary	
	Tertiery < Secondary < Primary	
	Tertiery < Secondary > Primary	
	This content is neither created nor endorsed by Google.	
	Google Forms	

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	The second secon	
2.	Roll No.	
957		
3.	The valency of carbon atoms in ethene molecule	2 points
	Mark only one oval.	
	3	
	< 0.4	
	<`} 2	
	0	
4.	Hybridization of doubly bonded carbon atoms in alkene is	2 points
	Mark only one oval.	
	sp	
	sp2	
	sp3	
	none of these	

2/21/	22	2.4	4	DAA

25 July 2021 Organic Chemistry Sem-I, Test-1

E	Veteur	
Э.	Valency of carbon atom having one unpaired electron in alkyl free radical is	2 points

-			
		n	
	30	Z	

Mark only one oval.

. 4				

6.	Homolytic cleavage of chemical compound affords

2 points

Mark only one oval.

0	ntinn	00	no.	bocat	Sac.
30	auon	e.u.	Cal	Docai	101

7. Nitrogen and Hydrogens in Ammonia (NH3) is

2 points

Mark only one oval.

Divalent and Trivalent respectively

Trivalent and Univalent respectively

Univalent and Tetravalent respectively

Univalent and divalent respectively

Reactive intermediates

8. Names of the above chemical species from top to bottom are respectively, 2 points

Mark only one oval.

Methyl carbocation, methyl Carbanion and Methyl free radical

Methyl carbocation, methyl free radical and Methyl Carbanion

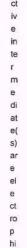
Methyl Carbanion, Methyl carbocation and methyl free radical

methyl free radical, Methyl carbocation and Methyl Carbanion

3/31/23, 3:41 PM

25 July 2021 Organic Chemistry Sem-I, Test-1

Next 4 questions are based on the following Reactive intermediates



ro

ici e

nt

Mark

only one oval.

9. Wpoints



c)
Methylcarbocation
oth
(a)
and
(c

10.	Which reactive intermediate(s)	are nucleophilic i.e. electron rich
-----	--------------------------------	-------------------------------------

2 points

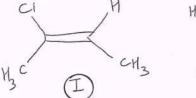
Mark only one oval.

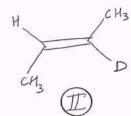
- (a) Methyl free radical
- (b) Methyl carbanion
- (c) Methyl carbocation
- both (a) and (c)

3/31/23, 3:41 PM

25 July 2021 Organic Chemistry Sem-I, Test-1

Next 3 questions are based on following chemical structures





Mark only

one

oval.

15. Q points

0

n

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6/15

https://docs.google.com/forms/d/1XcybVCgUDXrcZ_VkhgU5M5adVMkK-j4WeJDDFQakDY/edit

7/15

Mark only one oval. Zi.e. cis Ei.e. trans 17. Which priority order is correct according to CIP rules Aark only one oval.		25 July 2021 Organic Chemistry Sem-1, Test-1	
Z i.e. cis E i.e. trans 17. Which priority order is correct according to CIP rules Aark only one oval.	16.	Configuration of compound (II) is	2 points
Telie. trans 17. Which priority order is correct according to CIP rules All Priority order is correct according to CIP rules 2 poi		Mark only one oval.	
Which priority order is correct according to CIP rules Mark only one oval.		Z i.e. cis	
Mark only one oval.		E i.e. trans	
1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	17.	Which priority order is correct according to CIP rules	2 points
○ CH3 > CI		Mark only one oval.	
		◯ CH3 > CI	

Next 6 questions are based on the following structures

OD>CH3 ☐H>D

CHO	CHO	CHO
н— он	H-OH	HOH
НОН	H0-H	Н-ОН
CH20H	CH20H	CH20H
(©	D	(E)
and the second	性	
13/25		
100 mm		
Section Control Control		

3/31/23, 3:41 PM	25 July 2021 Organic Chemistry Sem-I, Test-1	
18.	Which of these compounds are chiral and hence optically active	2 points
	Mark only one oval.	
	A and B only	
	A, B, D and E only	
	C and F only	
	All A to F	
19.	Which of the following statements is correct about relations between these stereo isomers	2 points
	Mark only one oval.	
	C and F are enantiomers	
	C and D are enentiomers	
	C and F are Diastereoisomers	
	D and E are Diastereomers	
20.	Which of the following statements is incorrect about these stereoisomers $\ _{2}$ (A and B)	points
	Mark only one oval.	
	A and B are optical isomers i.e. enantiomers of each other	
	A and B both have chiral carbon or chiral center or asymmetric center or stereogenic center	
	Absolute Configuration of A is (S) while that of B is (R)	
	A and B are not mirror images of each other	
21.	Which of the following statements is incorrect about these stereoisomers 2 (C,D,E and F)	points
	(C,D,E and P)	
	Mark only one oval.	
	Isomer (C) is D-Erythrose and isomer (F) is L-Erythrose	
	isomer (D) is L-Threose and isomer (E) is D-Threose	
	C-F and D-E are enantiomeric pairs i.e. C and F are enantiomers of each othe and D and E are enantiomers of each other	r
	isomers D, E and F are diastereomers of isomer C	

3/31/23, 3:41 PM	25 July 2021 Organic Chemistry Sem-I, Test-1		3/31/23, 3:41 PM	25 July 2021 Organic Chemistry Semi-I, Test-1	
22.	which of the following is not diastereomeric pair	2 points	26.	Stereoisomers which are not mirror images of each other are called	2 points
	Mark only one oval.			Mark only one oval.	E points
	C and D			Constitutional isomers	
	C and E			structural isomers	
	C and F			Diastereoisomers	
	D and F			Enantiomers	
	Which of the following is/are correct enantiomeric pair(s)	2 points	27.	Isomers which are non-superimposable mirror images of each other OR	2 points
	Mark only one oval.			Configurational Stereoisomers which are mirror images of each other are called	
	A and B			Mark only one oval.	
	C and F			Constitutional isomers	
	D and E			structural isomers	
	All of these			Diastereoisomers	
				Enantiomers	
24.	Compounds having same MF but different structures are called	2 points			
	Mark only one oval.		28.	Carbon having four different atoms or groups is called	6-1-1-1
	Isotopes				2 points
	Isomers			Mark only one oval.	
	() Isotones			Stereogenic center	
	Isobars			Chiral Center or chiral carbon	
				Asymmetric carbon or Asymmetric center	
		*1		All of these	
25. I	somers having same linkages or connectivity but different spatial arrangements of atoms and are not interchangeable are called	2 points			
i	Mark only one oval.		29.	How many structural isomers are possible for C5H11Br	2 points
	Constitutional isomers			Mark only one oval.	
	structural isomers			8	
	Stereoisomers			□ 7 □ 7	
	Tautomers .			6 5	
		1.		×20 2400	

3/31/23, 3:41 PM	25 July 2021 Organic Chemistry Sem-I, Test-1	
30.	CH3-CH2-OH and CH3-O-CH3 are	2 points
	Mark only one oval.	
	Functional group isomers	
†	Chain isomers or skeletal isomers	
	Tautomers	
	Positional isomers	
31.	Butane and Isobutane are	2 points
	Mark only one oval.	
	Functional group isomers	
	Chain isomers or skeletal isomers	
20	Tautomers	
	Positional isomers	
32.	Reactions in which atoms or groups are migrated from one part of the molecule to the other part and linkages changed during the reaction are called	2 points
	Mark only one oval.	
	addition reactions	
	elimination reactions	
	() rearrangements	
	substitution reactions	
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	and the same of th	
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3/31/23, 3:41 PM

25 July 2021 Organic Chemistry Sem-I, Test-1

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https://docs.google.com/forms/d/1XcybVcgUDXrcZ_VkhgtJ5M5adVMkK-j4WeJDDFQakDY/edit

91/91

4. Average atomic mass of Br is (Given atomic masses and % natural

abundance of isotopes of Br are 79Br= 78.918 u (50.69 %), 81Br= 80.916 u

2 points

26 May 2021_Chemistry_MSc_Entrance Preparation

Total marks = 10
* Required

1. Name *

2. Class *

Mark only one oval.

FYBSc

SYBSc

TYBSc

 Average atomic mass of Mg is (Given atomic masses and % natural abundance of isotopes of Mg are 24Mg= 23.985 u (78.99 %), 25Mg= 24.986 u (10.00 %), 26Mg= 25.983 u (11.01 %))

Mark only one oval.

24.31 u

24.32 u

24.28 u

24.29 u

Mark only one oval.	
80.00 u	
(80.01 u	
79.90 u	
() 79.97 u	
Weight of one atom of Carbon-12 isotope is, (Given NA= 6.022×10^23 mol^-1)	2 points
Mark only one oval.	
a) 1.993 * 10^-23 g	
b) 1.993 * 10^-26 kg	
(
d) both a and b	
*	
Consider 1.8 g of pure water, what is the n(H2O), n(H) and n(O) in it?	2 points
Mark only one oval.	
n(H2O)= 1 mol, n(H)= 1mol and n(O)= 0.5 mol	
n(H2O)= 0.1 mol, n(H)= 0.2mol and n(O)= 0.5 mol	
	80.00 u 80.01 u 79.90 u 79.97 u Weight of one atom of Carbon-12 isotope is, (Given NA= 6.022 * 10^23 mol^-1) Mark only one oval. a) 1.993 * 10^-23 g b) 1.993 * 10^-26 kg c) 12 g d) both a and b Consider 1.8 g of pure water, what is the n(H2O), n(H) and n(O) in it? Mark only one oval. n(H2O)= 1 mol, n(H)= 1mol and n(O)= 0.5 mol

5/26/2021

(49.31%),)

n(H2O)= 0.1 mol, n(H)= 0.2mol and n(O)= 0.1 mol

n(H2O)= 1 mol, n(H)= 2mol and n(O)= 1 mol

5/26/2021

26 May 2021_Chemistry_MSc_Entrance Preparation

7.	what is the % by weight (approx.) of Ca in CaCO3 ? (given atomic masses: $_{\rm 2~points}$ Ca = 40.078 u, C= 12.011 u, O= 15.999 u)			
	Mark only one oval.			
	60 %			
	() 40 %			
	50 %			
	() 30 %			

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Mathematics MAT-101 (Geometry) Internal Test

Date: 9th January 2023

* Required

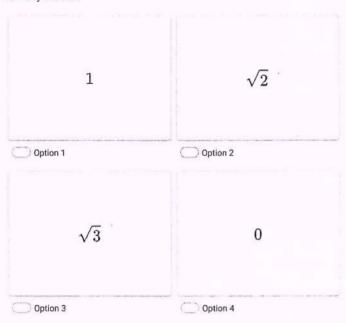
1.	Full Name *
2.	Exam Seat No. *

Multiple Choice Questions:



- 3. Distance between points (0,0,0) and (1,1,1) in 3-dimensional coordinate system is

Mark only one oval.



4. The direction ratios of the line perpendicular to the following plane are *

$$x-2y+3z-3=0$$

Mark only one oval.

1,2,3

____-1,-2,-3

1.-2:-3

5. The angle between two lines with direction ratios 1, 0, 1 and 0, 1, 0 is * Mark only one oval.

Option 3

0 π Option 1 Option 2

Option 4

6. The angle between following two planes is *

1 point

$$1 + 2y + 3z = 2$$
, $1 + 2y + 3z = 3$
Mark only one oval.

0 π Option 1 Option 2 π

 $\frac{\pi}{2}$ $\frac{\pi}{4}$ Option 3 Option 4

7. The centre of the following sphere is *

1 point

 $x^2 + y^2 + z^2 - 6x + 8y - 10z + 9 = 0$ Mark only one oval.

- (-6, 8, -10)
- (6, -8, 10)
- (-3, 4, -5)
- (3, -4, 5)

8. The radius of the following sphere is *

1 point

 $x^2 + y^2 + z^2 + 2x - 4y - 6z + 5 = 0$ Mark only one oval.

- 2
- 3
- ()4
- 9. Intersection of two spheres is *

I point

Mark only one oval.

- Line
- Plane
- Circle
- None of the above
- 10. Intersection of two planes is *

1 point

Mark only one oval.

- Line
- O Plane
- Circle
- None of the above

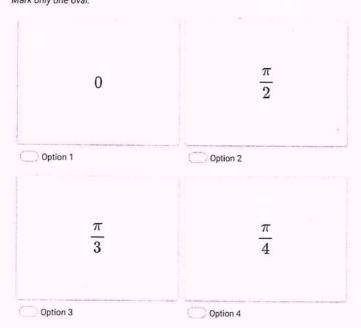


11. What is the sem-vertical angle of the following right circular phone?*

1 point

$$x^2+y^2=z^2$$

Mark only one oval.



12. What is the axis of the following right circular cylinder? *

1 point

$$x^2+y^2=4$$

Mark only one oval.

X-axis

Y-axis

Z-axis

None of the above

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Mathematics MAT-102 (Differential Calculus) Internal Test

Date: 9t	h Januar	y 2023
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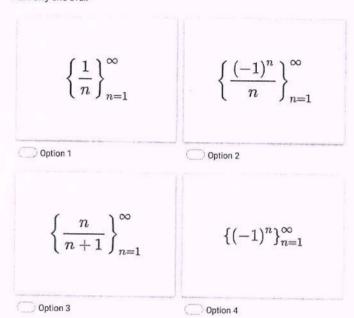
* Required

1. Exam Seat No.: *

2. Full Name: *

Questions:

Which of the following sequence of real numbers is not convergent? *
 Mark only one oval.





1 point

$$\left\{\frac{\left(-1\right)^{n+1}}{n^2}\right\}_{n=1}^{\infty}$$

Mark only one oval.



 $\frac{1}{4}$ $\frac{-1}{4}$

Option 3

Option 4



5.	Limit superior of the following sequer	nce of real numbers is *	1 point
	$ \left\{ (-1)^{n+1} \right\}_{n=1}^{\infty} $ Mark only one oval. $ \begin{array}{c} -1 \\ \hline 0 \\ \hline \end{array} $ None of the above		
5 .	Which of the following function is incr Mark only one oval.	reasing function? *	1 pc
	x^2	x^3	
	Option 1	Option 2	
	$\sin x$	e^{-x}	

Option 4

Option 3

7. What is the nth derivative of sin(ax+b) w.r.t. x? *

1 point

Mark only one oval.

$$a^n \cdot \sin\left(\frac{n\pi}{2} + ax + b\right)$$
 $a^n \cdot \sin\left(\frac{\pi}{2} + ax + b\right)$

Option 1

Option 2

$$a^n \cdot \sin\left(\frac{n\pi}{2} + ax\right) = \sin\left(\frac{n\pi}{2} + ax + b\right)$$

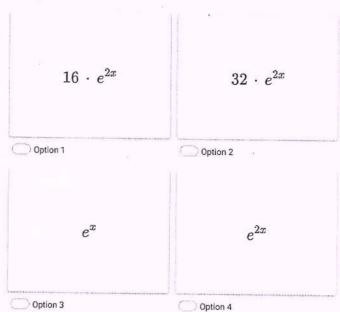
Option 3

Option 4

8. What is the 5th derivative of the following function w.r.t. x? *

1 point

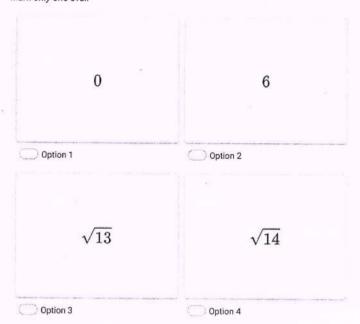
 e^{2x} Mark only one oval.





- 9. What is the maximum value of the directional derivative of the following scalar function at point (1, 1, 1)?
- * 1 point

$$\phi(x, y, z) = x + y^2 + z^3$$
Mark only one goal



10. What is the divergence of the following vector function? *

1 point

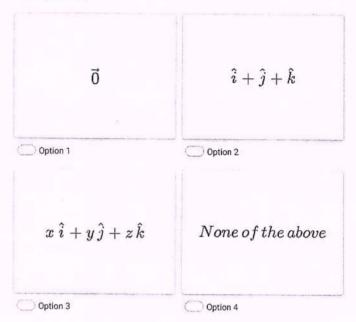
$$ec{r}=x\ \hat{i}+y\ \hat{j}+z\ \hat{k}$$
Mark only one oval.

0
1
3
None of the above

11. What is the curl of the following vector function?*

1 point

$$ec{r} = x \ \hat{i} + y \ \hat{j} + z \ \hat{k}$$
 Mark only one oval.



12. Which of the following identity(identities) is(are) true? *

1 point

I. $curl(grad \phi) = 0$. II. div(curl f) = 0. Mark only one oval.

- Only I, but not II Only II, but not I
- Both I and II
- Neither I nor II

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Internal Test Statistics STA-111Descriptive Statistics-I

Class: B.Sc.-I (Semester: I)
Subject: Statistics.
Descriptive Statistics-I
- 12:00 PM

Date: 6/1/2023 Paper (101):

Marks: 10

Time: 11:00 AM

HE	4		

1.	Full Name: *
2.	Exam Seat No.: *
	Multiple Choice Questions

3. The Relation between A.M. , G.M. , and H.M. is : *

1 point

Mark only one oval.

A.M = G.M = H.M

____ A.M ≥ G.M ≥ H.M

____ A.M ≤ G.M ≤ H.M

A.M ≠ G.M ≠ H.M



4.	Range is calculated by formula : *	1 point	7.	Which one is the true example of primary data from the following	* 1 point
	Mark only one oval.			options?	
	R=L+S			Mark only one oval.	
	R=LxS			Journal	
	R=L/S			Book	
	R=L-S			Newspaper	
				Census	
5.	What is the mean of the following numbers: *	1 point			
	24, 56, 85, 60, 50 ?		8.	The second quartile, which is denoted by 2, is also known as	* 1 point
	Mark only one oval.			Mark only one oval.	
	49			Mean	
	34			Median	
	55			Mode	
	○ 60			Range	
6.	What are the variables whose calculation is done according to the	* 1 point	9.	Histogram is a graph of,*	1 point
	weight, height, and length known as?			Mark only one oval.	
	Mark only one oval.				
	Qualitative			Frequency distribution	
	Quantitative			Time series	
	Flow-chart			Qualitative data None of These	
	None of these	100		None of These	2

Internal Test Statistics STA-112

	internal lest Statistics STA-112		Mark only one oval.
	Probability Theory		() 1-1/P
	Class : B.ScI (Semester-I)		(P-1
	<u>Sub</u> : Statistics. Date :6/1/2023 Paper : Probability theory Time : 11AM - 12PM		
	INTERNAL SECTION CONTROL VISION VISION VICE SERVED WERE SECTION VICE SERVED SECTION VICE SE		() 1-P
* K	equired		None of the abov
1.	Your Name *		
			6. Q4 Which of the follow
	An activities and an activities and activities activities and activities activities and activities activities and activities activiti		function (CDF).
			Mark only one oval.
2.	Exam Seat No. *		CDF is a monoto
			CDF is bounded I
	Multiple Choice Questions		() F _x (∞)=0
	Maniple Stores educations		F _x (-∞)=0
3.	Q1 An event in the Probability that will never happened is called as	1 point	Other:
	Mark only one oval.		
	Unsure event		7. Q5 If A and B are ind
	Sure event		Mark only one oval.
	Possible event		Mark only one oval.
	Impossible event		A and B are also
			A' and B are also
			A' and B' are also
4.	Q2 Which of the following probability can not exist?	1 point	A' and B' are not
	Mark only one oval.	and the same of	
	◯ 2/5	18th	
		1.07	
	€)1	100 0	I IS
	None of the above	187	eliono 5

5.	Q3 If P is the Probability of an event, what is the probability of its complement?	1 point
	Mark only one oval.	
	○ P-1	
	None of the above	
6.	Q4 Which of the following is not true about the Cumulative distribution function (CDF).	1 point
	Mark only one oval.	
	CDF is a monotone non decreasing function	
	CDF is bounded between 0 and 1	
	() F _x (∞)=0	
	F _x (-∞)=0	
	Other:	
7.	Q5 If A and B are independent then which of the following is false.	1 point
	Mark only one oval.	
	A and B are also independent	
	A' and B are also independent	
	A' and B' are also independent	
	A' and B' are not independent	
and a		

10.	The data Collected by Other source or people is called as	data *	1 point
	Mark only one oval.		
	Primary		
	Secondary		
	Both of Above		
	None of Above		
11.	Square root of Variance is formula of*		1 point
	Mark only one oval.		
	Median		
	Co-efficient of Variation (C.V)		
	Standard Deviation (S.D.)		
	None of Above		



12. What is Median and Mode of the following data?*

1 point

Х	Frequency
100	8
150	12
200	30
250	15
300	5

Mark only one oval.

-			
		-	-
	5	-	31

_____200

◯ 300

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8.	Q6 If $P(A \cap B) = 0$ Then the two event A and B are. Mark only one oval.	1 point	11.	Q9 A,B,C are three arbitrary events. Which of the following expression hold for ," At least one event occurs".	1 point
	Mutually exclusive Exhaustive Equally likely Independent			Mark only one oval. AnBnc' AnBnc ANBnc	
9,	Q7 If X and Y are random variable, and a ,b are constant, which of the condition cannot hold. Mark only one oval. E(X+Y)=E(X)+E(Y) E[af(X)]=aE[f(X)] Var[aX+b]=a²Var(X) Var[aX+b]=aVar[X]+Var[b]	1 point	12.	Q10 Let say two events satisfy the following equation $P(A \cap B) = P(A)^*P(B)$ We say that event A and B are . Mark only one oval. Independent event Mutually exclusive Disjoint event Dependent event	1 point
10.	Q8 formula for Bayes Theorem is . Mark only one oval. P(A B)={P(B A)P(A)}/P(B) P(A B)=P(A)/P(B) P(A B)=P(B A)/P(B) P(A B)=1/P(B)	1 point	o coan	This content is neither created nor endorsed by Google. Google Forms	

5/11/2021	Physical Chemistry	
7.	Pressure of the gas is directly proportional to the Volume of gas at const. Temp. and n. This is	2 / 2 points
	Your Answer: ✓ Correct ○ Charle's law	
V	* Boyle's law	
	○ Grahm's law	
	O Avogadro's hypothesis	
8.	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	2 / 2 points
V	Your Answer: ✓ Correct ⑥ Charle's law	
	O Boyle's law	
	O Grahm's law	
	O Avogadro's hypothesis	
9.	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
	Your Answer: ✓ Correct Charle's law	
	○ Boyle's law	
٧	® Grahm's law of diffusion	
	O Avogadro's hypothesis	
10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	2 / 2 points
	Your Answer: ✓ Correct ○ Charle's law	
	O Boyle's law	
	O Grahm's law of diffusion	
•	® Avogadro's hypothesis	

		Physical Chemistry	
		Hm	
7.		Pressure of the gas is directly proportional to the Volume of gas at const. Temp. and n. This is	0 / 2 points
		Your Answer: ☐ Charle's law	
	~	O Boyle's law	
	×	⊚ Grahm's law	
		O Avogadro's hypothesis	
8.		Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	2 / 2 points
	v	Your Answer: ✓ Correct ⑥ Charle's law	
		O Boyle's law	
		○ Grahm's law	
		O Avogadro's hypothesis	
9.		Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
		Your Answer: ✓ Correct Charle's law	
		O Boyle's law	
	٧	Grahm's law of diffusion	
		O Avogadro's hypothesis	
10.	1	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	0 / 2 points
		Your Answer: ≥ Incorrect ○ Charle's law	
	×	Boyle's law	
		Grahm's law of diffusion	
	1	Avogadro's hypothesis	

5/11/2021

1/202	1 Physical Chemistry	
P		aram Bembale
	pur score: 69% (16.5/24) May 16 uration: 0:02:54	5, 2020, 8:30 a.m.
C	ongratulations.	
1.	The change in state from solid to gas is	2 / 2 points
	Your Answer: ✓ Correct Melting	
	O Vaporization	
	✓ ⑥ Sublimation	
	○ Condensation	
2.	Which of the following is / are Crystalline substance(s)?	1.5 / 2 points
	Your Answer: ✓ Partially correct ✓ 🖾 NaCl	
	✓ © KCI	
	X □ Glass	
	× Ø Plastic	
3.	Half life of 1st order reaction is constant and is 0.693/k	0 / 2 points
	Your Answer: 1 Incorrect ✓ O True	
	⊁ ⑥ False	
4.	Match the following	3 / 6 points
	Your Answer: Partially correct	
	★ Condensatio Melting or Fusion Solid to liquid	
	★ Condensatio → Sublimation Solid to Gas	
	✓ Deposition ✓ Gas to Solid	
	Melting or Ft → Condensation Gas to Liquid	
	✓ Freezing ✓ Liquid to Solid	
5.	Straight line eq. is (write equation without space)	2 / 2 points
	Your Answer: ✓ Correct	
	Y=mx+c	
6.	As temperature increased by 10 degrees, rate of reaction increases by (Write any one Ans. 2 fold or 3 fold or 4 fold)	2 / 2 points
	iona of 4 fold)	
	Your Answer: ✓ Correct	
	2	

5/11/202	21	Physical Chemistry	
7		Pressure of the gas is directly proportional to the Volume of gas at const. Temp, and n. This is	2 / 2 points
		Your Answer: Correct Charle's law	
	10	® Boyle's law	
		○ Grahm's law	
		Avogadro's hypothesis	
8		Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	0 / 2 points
		Your Answer: ☐ Charle's law	
	×	Boyle's law	
		○ Grahm's law	
		O Avogadro's hypothesis	
9		Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	2 / 2 points
		Your Answer: → Correct Charle's law	
		○ Boyle's law	
	v	@ Grahm's law of diffusion	
		O Avogadro's hypothesis	
10).	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	2/2 points
		Your Answer: Charle's law	
		O Boyle's law	
		○ Grahm's law of diffusion	
	~	Avogadro's hypothesis	

Physical Chemistry Abh		Abhishek Tukaram Bembale May 16, 2020, 8:12 a.m.
	r score: 48% (11.5/24) ation: 0:09:36	May 15, 2020, 6.12 a.m.
Con	gratulations.	
1.	The change in state from solid to gas is	2/2 points
	Your Answer: ✓ Correct Melting	
	Ovaporization	
1	✓ ⑨ Sublimation	
	O Condensation	
2.	Which of the following is / are Crystalline substance(s)?	1.5 / 2 points
,	Your Answer: Partially correct Nacl	
1	✓ Ø KCI	A CONTRACTOR OF THE PARTY OF TH
3		CONTRACTOR
3	X □ Plastic	
3.	Half life of 1st order reaction is constant and is 0.693/k	0 / 2 points
,	Your Answer: ☆ Incorrect	
>	© False	1000 P
4.	Match the following	6 / 6 points
	Your Answer: ✓ Correct ✓ Metting or Ft ✓ Solid to liquid	
	✓ Sublimation ✓ Solid to Gas	
	✓ Deposition ✓ Gas to Solid	
	→ Condensatio → Gas to Liquid	
5,	Straight line eq. is (write equation without space)	2 / 2 points
	Your Answer: ✓ Correct Y=mx+c	
3.	As temperature increased by 10 degrees, rate of reaction increases by (fold or 4 fold)	Write any one Ans: 2 fold or 3 0 / 2 points
	Your Answer: Incorrect Incorrect	

7.	Pressure of the gas is directly proportional to the Volume of gas at const, Temp. and n. This is	0 / 2 point
	Your Answer: ☐ Charle's law	
	O Boyle's law	
	○ Grahm's law	
;	🖔 🐵 Avogadro's hypothesis	
8.	Volume of the gas is directly proportional to the Temperature of the gas at const. Pressure and n. This is	0 / 2 point
5	Your Answer: ﷺ Incorrect ✓ Charle's law	
	O Boyle's law	
	○ Grahm's law	
2	🕻 🍥 Avogadro's hypothesis	
9.	Rate of diffusion of gas is inversely proportional to the square root of Molar mass of the gas, this is	0 / 2 point
	Your Answer: ★ Incorrect Charle's law	
2	⊕ Boyle's law	
•	✓ Grahm's law of diffusion	
	O Avogadro's hypothesis	
10.	Equal volumes of all gases contain equal number of gas molecules at given temperature (T = constant)	0 / 2 points
	Your Answer: ¾ Incorrect ○ Charle's law	
	O Boyle's law	
3	€	
4	Avogadro's hypothesis	
	a a	