f gages States of Ma 12. If the is recorded and was 13. Ace whereaction all ammonia 14. Again teraction all ammonia 14. Again
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3 - O - CH,
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ing?
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f gases
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and temperature
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Considering C 2
.224 L
volume of the gb
volume of the b
.79 dm ³
H H H H

	(E)			
ses.	States of Matter : 1	(-accous and liquid state		The second second
		and liquid clate	[115]	
	12. If the absolu	ite temperatus IMII	T-(FT 2020)	MHT-CET Is doubled and the pressure
	is reduced to	half, the final volume	having volume V cm	1 is death to
Wate,	13. A certain san	b) 2 V cm ²	certi tve	structured and the presenters
on atte	What is the v	opte of gas has a volume	() 0.25 V cm ³	d) also v emi
	a) 5.406 L	ople of gas has a volume colume of gas at 273.15° b) 2.703.1.	Cat same prosure	d) 0.50 V cm ³
a.	14. A gas has voli	b) 2.703 L	c) 0.41	
1	to 10.2 L at co	onstant pressure 2	iat is the final temper	d) 0.21. ature if the volume increases
	a) 694 K	b) 394 K		the volume increases
	to a terrain man	e - l	(1) 1001 11	
	a) 540.15°C	will double, keeping the b) 400.15°C	ne of 2 dm ³ at S7	P. At what temperature the
	16. According to A	b) 400.15°C	c) 546 1500	?
	gas obeys Boyl	e's law is	e minimum tempor	d) 273.15°C
	a) 48.1°C	b) 35.5°C	tempera	d) 273.15°C iture at which carbon dioxide
	17. The volume of	given -	c) 32.5°C	d) 31 1°C
	constant pressu	re, if temperature	x' K is 2 dm ³ . Wha	d) 31.1°C t is the new volume of gas at
		re, if temperature is in	creased to 10 xK?	volume of gas at
	a) 4 dm ³	b) 20 dm ³		1 :
			c) $\left(\frac{1}{4}\right)$ dm ³	d) $\left(\frac{1}{20}\right)$ dm ³
	18. If 2 moles of an i	deal gas at 546 K have	Volume of 44 oz	en what will be its pressure?
	(R = 0.082)		volume of 44.8 L, th	en what will be its pressure?
	a) 3.129 atm	b) 2 408 atm	sugger states again promise	
. 1	Volume of a ballo	on at 25°C and 11	c) 1.098 atm	d) 1.998 atm
	balloon is reduced	d to 0.227 bar, what is	the rice is 2.27 L.	d) 1.998 atm If the pressure of the gas in
	a) 10.227 L	b) 7.73 L	- III VOIUIILE	of the gas ?
20	. Isochor is the gran	oh plotted between.	c) 12.27 L	d) 10 L
	a) Reciprocal of v	olume -		
	h) Temporature	orume on x-axis and	pressure on y-axis	at constant temperature.
		and pressure	On V-axis at conch	ant 1
	-) - ressure on x-a.	xis and volume on v-	-axis at constant b	
	e) remperature on	x-axis and volume of	n v-avic at const-	AND PRODUCE OF THE CONTROL OF THE CO
	A gas occupies a vo	lume of 1.8 dm ³ at 30	OV Atack to Consta	nt pressure. perature the gas expands to
21.		or rio and at 50	o K. At which tem	perature the gas expands to
21.	5.4 dm ³ at constant	pressure ?		
21.		pressure:		
	a) 365.5 K	b) 1050 K	c) 350 K	d) 900 V
22.	a) 365.5 K A certain mass of a	b) 1050 K gas occupies a volum	c) 350 K ne of 2.5 dm ³ at N	d) 900 K
22.	a) 365.5 K A certain mass of a	b) 1050 K gas occupies a volum	c) 350 K ne of 2.5 dm ³ at N	d) 900 K
22.	a) 365.5 K A certain mass of a	b) 1050 K gas occupies a volum same temperature in	c) 350 K ne of 2.5 dm ³ at N f pressure of gas i	d) 900 K TP. Calculate the change in s changed to 1.25 atm.
22.	a) 365.5 K A certain mass of a polynome of gas at the a) 1.5 dm ³	b) 1050 K gas occupies a volum same temperature in b) 0.5 dm ³	c) 350 K ne of 2.5 dm ³ at N f pressure of gas i c) 4.5 dm ³	d) 900 K TP. Calculate the change in is changed to 1.25 atm.
22.	a) 365.5 K A certain mass of a polynomial volume of gas at the a) 1.5 dm ³ A gas occupies a vol	b) 1050 K gas occupies a volun same temperature in b) 0.5 dm ³ ume of 4.2 dm ³ at 1	c) 350 K ne of 2.5 dm ³ at N f pressure of gas i c) 4.5 dm ³	d) 900 K TP. Calculate the change in is changed to 1.25 atm. d) 3.0 dm ³
22. 3.	a) 365.5 K A certain mass of a polynomial volume of gas at the a) 1.5 dm ³ A gas occupies a vol	b) 1050 K gas occupies a volun same temperature in b) 0.5 dm ³ ume of 4.2 dm ³ at 1	c) 350 K ne of 2.5 dm ³ at N f pressure of gas i c) 4.5 dm ³	d) 900 K TP. Calculate the change in is changed to 1.25 atm.

	Sta	ites of Matter:	aseous and liquid stat	e [116]			MHT-CL		of Mi
	24.	What will b	e the minimum pressi wcC?	ire requir	ed to compre	as 500 dm ³ o	fair at I have	itates	Keep
		at A has	15) 2 % 15ar	€	3 bar	d) 2 b		37.	105
	25.	li same ami	unts of each of follo	wing fen	r gases expa	and from vo	lume V.		a) 1 The
		maximum w	tak titute to the	and the same of th				18.	272
		a) O ₂	b) N ₂		i SO ₂ Cwithout ch	d) CO	,		
	26.	400 cm ³ of ox	ygen at 27°C were coo	led to - a	C WILLIAM EN	ange in press	ure What id it		a)
			b) 30 cm ³	(c)	360 cm^3	d) 40	cm ³	19.	At
		a) 44.4 cm ³	gas at 26.85°C is coole			t pressure. I	Vhat will b	3	ga a)
	27.	final volume							Δ
		a) 738 ml	b) 210 mL		140 mL	d) 280		40-	√.
	28.	10 e of eas a	t one atmospheric pre	ssure is c	cooled from	273.15°C to	0°C keeping Ha		a
L		volume const	ant. What is the final	pressure	?	1		41.	. 4
		a) 273 atm	b) 2 atm	c)	$\frac{1}{2}$ atm	d) 1/27	3 atm	4.5	
	29.	The volume of	400 cm ³ chlorine gas a	at 400 mm	of Hg is dec	reased to 20	0 cm ³ at constan		
		temperature. I	What is the new press	ure of the	e gas ?			42	7
		a) 1600 mm of	Hg b) 200 mm of	Hg c)	800 mm of I	Hg d) 600	mm of Hg	4.	-
	30.	A balloon cont	ains 2.27 L air and ha	s a pressu	re of 1.013 ×	$10^5 \mathrm{Nm}^{-2}$.	The balloon rise.		
	t	o a certain heig	ght and expands to vo	olume of 4	4540 mL. Wh	nat is the fin	al pressure of all	4	13.
	ir	the balloon?							
	a)	$2.026 \times 10^2 \mathrm{N}$	√m ⁻²	b)	5.065×10^4	Nm ⁻²			
		$4.540 \times 10^4 \mathrm{N}$			5.065×10^{-4}				44.
	31. At	what tempera	ature the volume of a	given ma	ass of a gas a	it constant p	ressure becomes		
	tw	ice its volume	at 0°C?				44		
	a) :	546.3 K	b) - 273.15 K	c)	373.15 K	d) 20	0 K		45.
3	2. At v	what new pre	ssure will 100 mL of	gas at pr	essure 760 n	nm occupy	volume of 81 m		
	keep	ing tempera	ture constant?			J	. ordine of 04 III	_	
	a) 81	16.60 mm	b) 712.14 mm	c) .	857.14 mm	4) (0	4.00		46
			IMHT	-CFT 202	11	,	4.82 mm		-
3.	A flas	k has volum	e of 0.25 dm ³ . What	volumo	of alm '11 1				47
	heated	from 300 K	to 360 K ?	voiume	of air will b	e displaced	l from flask if it	is is	-
		$5 dm^3$	b) 0.3 dm ³						
			<i>b)</i> 0.3 dm ³	c) ($0.25 \; dm^3$	d) 0.	002 dm^3		
	vviiat 1	s the initial t	olume of a gas hav	ing pres	sure 450 m	ım Ho if fi	nal valuma isi	700	
			mm Hg at constan	t temper	rature ?	116, 11 11	nai voiume is	150	
	a) 390.0	mL	b) 1200.0 ml	-\ -	110 0				
	A hot air	balloon has	a volume of 2.8 m ³ ; b) 1.75 m ³	· 000=	19.2 mL	d) 10	083.3 mL		
í	a) 0.70 n	n3	Totalile of 2.8 m ³	at 99°C. I	find the vol	ume when	air cools to = 8°	7°C	
,	0.70 1	The sources as	b) 1.75 m ³	c) 1	$.40 \mathrm{m}^3$	41 1	05 2		
1	gas occi	upies 11.2 dn	n ³ at 105 KPa. What	is its vo	lumo ir	a) 1.	U5 m ³		
a) 22.4 di	m^3	n ³ at 105 KPa. What b) 33.6 dm ³		rume if pres	ssure is inc	reased to 210 K	Pa?	
			, will	-c) 5	.6 dm ³	d) 1	6.8 dm ³		
				-	The state of the s				

3.

a)

HT						
of 1 P	6					
Oal	states of reaching and liquid state					
				MHT-CET		
V _{1 to 1}	105 KPa	to 420 kPa. What is the new in the property of the by 7.0 dm².	essure of 11.2 dm ⁻¹ of a	gas was increased from		
1						
	38. The volum	ne of a gas at 0°C is 2 dm ³ . W	That is its volume if ten	d) 2.8 dm		
hat is the	(3)	7.3		retature is decreased by		
The same	(272)	dm^3 b) $\begin{pmatrix} 2 \\ 272 \end{pmatrix} dm^3$	(4)	(2)		
7 .	ze. At 300 K.	dm ³ b) $\binom{2}{272}$ dm ³ 22 g of CO ₂ gas exerts a pressame temperature? (R = 0.6	() (273) dm ³	d) $\left(\frac{273}{273}\right)$ dm ³		
be the	gas at the	same temperature? (R = 0.0	sure of 5 atmosphere.	What is the volume of the		
	a) 5.61 dn	b) 8.20 dm3	and K men).			
	40. A certain	mass of gas occurs	c) 2.46 dm ³	d) 3.80 dm ³		
ng the	volume of	gas if pressure is increased b) 300 mL	to 2.5 atm at constan	1. pressure. Calculate the		
	a) 352.0 m	b) 300 mL	c) 200 mL	d) 442 = I		
	41. At 296 K, 0	.450 mole of nitrogen gas o gas at 296 K?	ccupies a volume of 8	21 I What is the process		
			1 a volume of 6.	21 C. What is the pressure		
Stan	a) 1.33 atm	-) 10.5 atti	c) 13.8 atm	d) 134 atm		
	Colonlata G	[MHT	CET 20221	75		
1	42. Calculate fi	nal volume of a gas when	pressure of 60 mL gas	s is increased from 1 to 1.5		
ise						
air	a) 3 × 10 -	dm ³ b) 2×10^{-2} dm ³	c) $4 \times 10^{-2} \text{ dm}^3$	d) $5 \times 10^{-2} \text{ dm}^3$		
-11	43. Calculate th	e pressure of 1.5 mole of ga	as having volume 3 dr	m^3 at 300 K. (R = 0.0821 dm ³		
		/				
	a) 15.3 atm	b) 14.6 atm	c) 10.25 atm	d) 12.32 atm		
	44. Calculate the	e number of moles of a ga	s having vol 2.5 litre	at 300 K and 4.5 atm.		
es	(R = 0.821 at)	$m dm^3 K^{-1} mol^{-1}$				
	a) 0.46	b) 0.70	c) 0.62	d) 0.56		
4	5. Calculate the	new volume of a gas at c		en temperature is increased		
	to 546K. (Init	ial volume of gas at 273 I	ζ is 4 dm^3).	on temperature is increased		
	a) 5 dm ³	b) 2 dm ³	7/	d) 8 dm ³		
4			74 5 77 00 00-00-00-0			
71				mass = 4 g mol^{-1}) at STP?		
	a) 2.0 dm ³	ALTORES NOT TWO	c) 11.2 dm ³	d) 5.6 dm^3		
47	. Which of the	following is a correct rel	ation for Gay-Lussa	ic law ?		
	a) P ∝ T (at c	onstant vol)				
	b) V \(\alpha \) n (at \(\alpha \)	onstant temperature an	d pressure)			
	c) $P \propto \frac{1}{V}$ (at	constant temperature)				
	d) V ∝ T (at c	onstant pressure)				
48.	What is the va	lue of temperature in de	egree celsius at abs	olute zero ?		
	a) 273.15°C	b) 0°C	c) - 373.15°C	d) - 273.15°C		
49.	Calculate the fi	nal volume of a gas if p	ressure changes fro	m 0.75 atm to 1.0 atm at same		
	temporature (nitial volume is 50 mL				
			c) 50 mL	d) 37.5 mL		
	a) 25 mL	b) 40 mL	c) some	siy see is anno		