THIRUVANANTHAPURAM EDUCATIONAL DISTRICT

CHEMISTRY STANDARD X		Thiruvananthapuram Educational District	
	Answer key	WorkSkietz Have & gaar way	
	3	1	
2)	3d	1	
3)	6.022 X 10 ²³	1	
4)	f	1	
5)	22.4L	1	
6)	a, c	2	
7)	a A=2x B)15L	1	
	b- Avogadro's law	1	
8)	a. 1s²2s²2p ⁶ 3s²3p ⁶ 3d ⁵ 4s ¹ or ii	1	
	b) The half filled or full filled d sub shell is m than others.	ore stable 1	
9)	a) 2 x 6.022 x 10^{23}	1	

	b) 56 g	1	
10)	a) 44 g	1	
	b) 5	1	
11)	a)1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 4s ¹	1	
	b) group-1, period-4		1
	c) Block-S	1	
12)	a) FeO (Ferrous oxide)	1	
	b) 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵	1	

c) Transition elements show variable oxidation state in their compounds because there is a very small energy difference in between3d and 4s orbitals. As a result, electrons of 3d orbitals as well as 4s-orbitals take part in hand formation

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	Dona Iormation.	T
13)	A=2	1
	$B=4x \ 6.022 \ X \ 10^{23}$	1
	C=20g	1

14)	a) 40g	1
	b) 2	1
	c) 2 x 6.022 x 10^{23}	1
15)	a) Figure b	1
	b) As the bubbles moves from bottom to top pres	sure is
	decreases so the volume of bubbles increases at th	e top.
	The law related to this activity is boyles law	1
c)	The size of climate balloons increases as they move	in
	upward direction in the atmosphere /	
	When an inflated balloon is immersed in water, its	size
	decreases(Any other eg)	1
16)	a) 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵ 4s ¹	1
	b) A,C	1
	c) D	1
	d) CD ₂	1

	b) Charle's Law	1
	c) $V \propto T$ or $V = a$ constant $X T$ or	
	V/T = a constant	1
	d) As the temperature increases in summer season	,the
	volume of the air inside the tyre increases and fina	ally it
	bursts	1
18)	a) 140g	1
	b) 10 x N _A	1
	c) 89.6 L or (67.2L)	1
	d) 3	1
19)	a) 15	1
	b) D	1
	c) Transition elements can show variable oxidation	n states
	or They form coloured compounds (any other)	1
	d) B	1

А	В
s - Block	The oxides and hydroxides of these elements are basic in nature.
p - Block	These elements are in the solid, liquid and gaseous states at room temperature.
d - Block	Compounds of these elements are used for giving colour to glasses and in oil paintings.
f - Block	These elements are used as fuels in nuclear reactors.