HIGHER SECONDARY SCHOOL, ARIMPUR

FIRST MID TERM EXAMINATION 2017-18

Class: X

Marks: 40

CHEMISTRY

1. (Complete	the second pair			
	In M-	- shell : s,p,d sub shells			
	In N-	shell:			(1)
2.0	Complete	the table given below (S	ymbols given are not real)		(3
	element	subshell electronic configuration	Highest shell numebr in the sub shell configuration	period	
	5 ^X	1s² 2s² 2p¹	2	2	
	11 ^Y	1s ² 2s ² 2p ⁶ 3s ¹	3	(a)	
	19 ^Z	(b)	4 -	(c)	
3. T	he subsh	ell electronic configurati	on of an element in given as (Ar)3d ⁵ 4s ¹	
	a) Ho	w many shells of this ele	ment has electrons in it		(1)
	b) Which is the sub shell to which the last electron is added				(1)
	c) What is the atomic number of the element				(1)
	d) Wh	nat is the group number o	f the element		(1)
4. V	Vrite note	es			
	a) Tra	nsition elements		all him at	
,	b) Gra	am atomic mass			
	c) Uni	ified mass		1	x3=(3)
5. E	xplain the	e following			
	a) Tra	nsition elements show sin	milarities in properties not on	ly in a grou	p
	but als	so in a period.	*** Sec. 1. 12 1 1. 1998	Site is transfer.	(1)
	b) Tra	nsition elements show va	riable oxidation states		(2)
	c) In p	ootassium, last electron fi	ills-4s sub shell instead os 3d	sub shell	(2)
6. How many water molecules are present in 90 g water?					(2)
7. St	uppose 20	0 molecules of hydrogen	are allowed to react with 20		91 1 2
		of oxigen to produce wat			
	a) Wh	ich of the reactant molec	ules gets consumed first?		(1)
	b) The	molecules of which reac	tant will remain unreacted? H	ow many?	(1)

Mob: 9946899557