9	Which of the following sets of atomic numbers corresponds to elements of group 16?						
	(a) 8, 16, 32, 54	(b) 16, 34, 54, 86					
	(c) 8, 16, 34, 52	(d) 10, 16, 32, 50					
10.	. The atomic numbers of the metallic and	d non-metallic elements which are liquid at room					
	temperature respectively are:						
	(a) 55, 87 (b) 33, 87	(c) 35, 80 (d) 80, 35					
11.	In the periodic table, metallic character of	of the elements shows one of the following trend:					
	(a) Decreases down the group and increases across the period						
	(b) Increases down the group and decrea	ases across the period					
	(c) Increases across the period and also down the group						
	(d) Decreases across the period and also down the group						
12.	Nucleus of an element contains 9 protons.						
	(a) 1 (b) 2	(c) 3 (d) 5					
13.	Transition metals are not characterized by						
	(a) fixed valency	(b) coloured compound					
	(c) high melting and boiling points	(d) tendency to form complexes					
14.	Sodium generally does not shown oxidation	ion state of +2, because of its:					
	(a) High first ionisation potential	(b) High second ionization potential					
	(c) Large ionic radius	(d) High electronegativity					
15.	Which of the following pairs of molecules ha	nave the almost identical bond dissociation energy?					
	(a) F ₂ and H ₂ (b) N ₂ and CO	(c) F_2 and I_2 (d) HF and O_2					
16.	According to modern periodic law the prop	perties of elements repeat at regular intervals when					
	the elements are arranged in order of :	The second secon					
	(a) decreasing atomic number	(b) increasing atomic weight					
	(c) increasing atomic number	(d) decreasing atomic weights	(d) decreasing atomic weights				
17.	Give the symbol of the elements of lowest	t atomic number that has three 2p electrons:					
	(a) Mg (b) P	(c) N (d) Si					
18.	In the fourth period of the periodic table, ho	ow many elements have one or more 4d electrons?					
	(a) 2 (b) 18	(c) 0 (d) 6					
19.	Assuming that elements are formed to comp	ssuming that elements are formed to complete the seventh period, what would be the atomic					
	number of the alkaline earth metal of the	eighth period?					
	(a) 113 (b) 120	(c) 119 (d) 106					
20.	Which of the following represents an excite						
	(a) [Ne] $3s^23p^64s^23d^8$	(b) [Ne] $3s^23p^64s^13d^5$					
	(c) [Ne] $3s^23p^64s^23d^1$	(d) $1s^2 2s^2 2p^5 3s^1$					
21.	Choose the correct statement regarding tra	ansition elements?					
	(a) Transition elements has low melting po						
	(b) Transition elements do not have cataly						
	(c) Transition elements exhibit variable oxidation states						
	(d) Transition elements exhibit inert pair effect						
	Which one of the following is a different pair?						
	(a) Li, Na (b) Be, Ba	(c) N, As (d) O, At					
	9 9	(u) O, Ai					

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23.	The element having electronic configuration	$[Kr]4d^{10}4f^{14},5s^25p^6,6s^2$ belongs to	:
		(c) d-block (d) f-block	
24.	Which element is named after the name of a		
	(a) Hg (b) Po	(c) Pu (d) Ra	
25.	Zn and Cd metals do not show variable valer	ncy because :	
	(a) They have only two electrons in the oute		
	(b) Their d-subshells are completely filled	c. + , Q, 9 (d)	q. i i
	(c) Their d-subshells are partially filled	h electronic configuration must repri	37 Wille
	(d) They are relatively soft metals	(h) 15° 25 (s)	
26.	An element whose IUPAC name is ununtrium		
	(a) s-block element	(b) p-block element	
		(d) Transition element	
27.	Which of the following is not representative		
		(b) Tantalum	39. Per 1
	(c) Thallium	(d) Astatine	
28.	The period number and group number of "Ta		G
	(a) 5, 7 (b) 6, 13	(c) 6, 5 (d) None of	tnese
29.	Which of the following pair of elements belo	ong to the same period?	
	(a) Mg and Sb(b)		V 41
		(d) Ca and Close gravofield as the .	1 17 17 -24
30.	Consider the following electronic configuration $[Xe]4f^{14}5d^{1}6s^{2}$	age covilent today of P is 0.11 am	1 16, refl .\$2
	Then correct statement about element 'P' is	rate it than P b) greater than a:	
	(a) It belongs to 6th period and 1st group(c) It belongs to 6th period and 3rd group	(b) It belongs to 6th period and 2n (d) None of these	id group
31.	Which of the following metal is highest elec-		
	(a) Be (b) Rb	(c) Mn (d) Tl	Ad. The o
32.	Which of the following species must have m	aximum number of electrons in d_{xy}	orbital?
	(a) Cr (b) Fe ³⁺	(c) Cu ⁺ (d) Both (a)	
33.	Which of the following graph is correct remagnetic moment of <i>d</i> -block elements? [Ou	presentation between atomic numb ter electronic configuration: $(n-1)d$	er (Z) and *ns ^{1 or 2}]
		≗ ₌ ,↑ ≗ ₌,↑	^
	Magnetic moment moment moment moment moment	(c) Magnetic moment (p) Magnetic moment (p) Magnetic (p)	16. 7
	Z— Z— Z	z>	<u>z</u> >
34.	If IUPAC name of an element is "unununium		
	(a) It is a inner transition element	(b) It belongs to 8th period in peri	iodic table
	(c) It is transition element	(d) It is a non-transition element	- T
35.	Which property decreases from left to right a bottom?	a Roll also others softmath to the first	
	(i) Atomic radius (ii) Electronegativity		c character
	(a) (i) only	(b) (i), (ii) and (iii)	