

TOPIC: "The Periodic Table and Periodic Properties"
ANSWERS

A									
B	E		G	H		K	M		
C	F				J	L			
D									

Select the correct answers (more than one answer could be correct)

1	These elements are alkaline earth			
<input type="checkbox"/> B	<input type="checkbox"/> D	<input checked="" type="checkbox"/> F	<input type="checkbox"/> H	<input checked="" type="checkbox"/> E

2	These elements are halogens			
<input checked="" type="checkbox"/> M	<input type="checkbox"/> K	<input type="checkbox"/> L	<input type="checkbox"/> G	<input type="checkbox"/> H

3	These elements are metals			
<input type="checkbox"/> A	<input checked="" type="checkbox"/> B	<input checked="" type="checkbox"/> D	<input type="checkbox"/> J	<input type="checkbox"/> L

4	These elements are from group 16			
<input type="checkbox"/> G	<input type="checkbox"/> H	<input type="checkbox"/> J	<input checked="" type="checkbox"/> K	<input checked="" type="checkbox"/> L

5	These elements are from group s^2p^2			
<input type="checkbox"/> E	<input type="checkbox"/> F	<input type="checkbox"/> G	<input checked="" type="checkbox"/> H	<input type="checkbox"/> K

6	These elements have more than two unpaired electrons in their ground state			
<input type="checkbox"/> H	<input checked="" type="checkbox"/> J	<input type="checkbox"/> L	<input type="checkbox"/> K	<input type="checkbox"/> M

7	These elements tend to form cations			
<input checked="" type="checkbox"/> E	<input checked="" type="checkbox"/> F	<input checked="" type="checkbox"/> C	<input type="checkbox"/> K	<input type="checkbox"/> M

8	These elements tend to form anions			
<input type="checkbox"/> B	<input type="checkbox"/> G	<input type="checkbox"/> H	<input checked="" type="checkbox"/> L	<input checked="" type="checkbox"/> M

9	These elements tend to lose two electrons			
<input checked="" type="checkbox"/> F	<input type="checkbox"/> D	<input type="checkbox"/> J	<input type="checkbox"/> L	<input type="checkbox"/> M

10	These elements tend to gain two electrons			
<input type="checkbox"/> E	<input type="checkbox"/> J	<input checked="" type="checkbox"/> L	<input checked="" type="checkbox"/> K	<input type="checkbox"/> M

A					
B	E		G	H	
C	F				K
D				J	L

- 11** The effective nuclear charge of these elements is 2
 A B F L M
- 12** The outer electrons of these elements "feel" the effect of more than 5 protons
 M F L H D
- 13** The outer electrons are found at level $n=3$
 B C F H K
- 14** In these elements there are 4 outer electrons
 D G H K M
- 15** The effective nuclear charge of these elements is 1
 A B M K J
- 16** The effective nuclear charge of these elements is similar to that of "K"
 C L M J G
- 17** The effective nuclear charge of these elements is bigger than that of "K"
 L H M E D
- 18** The effective nuclear charge of these elements is 5
 G H J K M
- 19** In these elements there is only one electron unpaired (ground state)
 D F M K H
- 20** In these elements all the electrons are paired (ground state)
 J L H F B

A					
B	E		G	H	
C	F				K
D				J	L

21 The sizes of these atoms are larger than the size of "G"
 M F K D H

22 The sizes of these elements are smaller than the size of "L"
 D K J G M

23 The sizes of these elements are larger than the size of "C"
 B E D M J

24 The sizes of these elements are larger than the size of "K"
 H G F M C

25 The sizes of these elements are between the sizes of "K" and "G"
 B C D H M

26 The metallic behavior of these elements are bigger than that of "F"
 D C E K M

27 The metallic behavior of these elements is smaller than that of "L"
 J F K D M

28 The metallic behavior of these elements is bigger than that of "C"
 F L D M K

29 The metallic behavior of these elements is smaller than that of "K"
 L M D B A

30 The metallic behavior of these elements is bigger than that of "M"
 D C J L K

A					
B	E		G	H	
C	F				K
D				J	L

31 The first ionization energy of these elements are smaller than the second ionization energy
 D C F G M

32 The size of these elements are bigger than the size of their cations
 D C F E B

33 The size of these elements are bigger than the size of their anions
 A K L M J

34 The first ionization energy of these elements are bigger than that of "H"
 D C K M E

35 The first ionization energy of these elements are smaller than that of "F"
 D C J K M

36 The electronegativity of these elements is 4 or bigger
 D C H L M

37 The electronegativity of these elements are less than 1.5
 D L K M H

38 The electronegativity of these elements are bigger than that of "J"
 C F L K M

39 The electronegativity of these elements is 2.1
 D C A M K

40 The electronegativity of these elements are smaller than that of "F"
 D C G H K