
FORMATIVE ASSESSMENT-3
PHYSICAL SCIENCE-8th, 9th Chapters
10th Class
CCE Model

Time: 45 min.

2016-17

Max. Marks: 20.

Name : _____

Sec : _____ Roll No : _____

I. Answer the following Long answer type questions.

4M X 2 = 8

- Observe the side given figure and answer the questions.
 - What is the number of this group in Arabic numerical?
 - These elements belong to which block?
 - What is the special name of this Oxygen family?
 - Write the general outer shell electronic configuration of these elements.
- In an atom K and L shells fully filled with electrons. Answer the following questions.
 - What is the atomic number of that atom?
 - Write the name of that element.
 - Write the electronic configuration of that element.
 - To which group and period it belongs?

8
O Oxygen 16.0
16
S Sulfur 32.1
34
Se Selenium 79.0
52
Te Tellurium 127.6
84
Po Polonium (209)

II. Answer the following Short answer type questions.

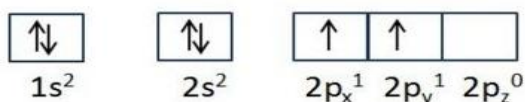
2M X 2 = 4

- “In an atom, Orbital is different from Bohr’s Orbit.” Are you support this statement. Explain?
- Give reason for the decrease of Ionization energy in the groups, from top to bottom in the modern periodic table.

III. Answer the following Very Short answer type questions.

1M X 2 = 2

- Your friend wrote the electronic configuration of Carbon (C) atom as given below.



Which rule he used to write this?

- On which bases the elements in the modern periodic table are arranged?
-

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IV. Choose the correct answer of the following.

1M X 6 = 6

7. Which of the following statements are correct in the case of modern periodic table? ()

- (i) There are seven periods in the modern periodic table.
 (ii) There are eighteen groups in the modern periodic table.
 (iii) The seventh period is the incomplete period in the modern periodic table.
 (iv) The elements in the first period are seven.

(a) (i),(ii),(iii),(vi) (b) (i),(ii),(iii) (c) (i), (iii),(iv) (d) (i), (ii),(iv)

8. Which of the following is not a Dobereiner's triad? ()

- (a) Lithium, Sodium, Potassium (b) Sulphur, Selenium, Tellurium
 (c) Fluorine, Chlorine, Bromine (d) Calcium, Strontium, Barium

9. Match the Mendeleeff's predicted elements given in Column I with their present names given in Column II. ()

Column I	Column II
A. eka-aluminium	1. scandium
B. eka- boron	2. germanium
C. eka-silicon	3. gallium

Codes

- | | | | | | | | |
|-----|---|---|---|-----|---|---|---|
| | A | B | C | | A | B | C |
| (a) | 3 | 2 | 1 | (b) | 3 | 1 | 2 |
| (c) | 2 | 3 | 1 | (d) | 2 | 1 | 3 |

10. The next orbital in the below series is ()

 $1s < 2s < 2p < 3s < 3p < _ _ _$

- (a) 3d (b) 4s (c) 4p (d) none

11. Which are the correct sets of the following for quantum numbers? ()

- (i) n – describe the energy of the shell
 (ii) l – describe the orientation of an orbital
 (iii) m_l – describe the shape of the sub shell
 (iv) m_s – describe the intrinsic property of the electron.

(a) (i) and (ii) (b) (i) and (iii) (c) (ii) and (iii) (d) (i) and (iv)

12. The electronic configuration of Mg^{+2} ()

- (a) 2, 8, 2 (b) 2, 8 (c) 2, 8, 4 (d) none