Assignment for SSC Examinees, 2021

Subject: Chemistry **Subject Code: 137** **Level: SSC**

Assignment Number, Chapter Number, Chapter Title	Assignment	Learning Outcomes	Guidelines (cues/steps or stages)	Assessment Criterion /Rubric	Com'ts
01 **Chapter Three:** Structure of Matter	**Number of neutrons in four different elements, Figure of structure of atom according to the Bhor's model, Electronic configuration of energy level and sub-energy level(orbitals)** Prepare a report on the number of neutrons in the mass numbers of the elements mentioned next to the symbols, the diagram of the structure of atoms according to Bohr model, their electronic configuration at energy levels and sub-energy (orbitals) levels. Na(11), Mass number-23 P(15), Mass number-31 K(19), Mass number-40 Cu(29), Mass number-63	Students' will be…. ● Able to determine the number of electrons, protons and neutrons in an atom ● Able to describe the structure of atom in relation to the theories of Rutherford and Bohr atomic model ● Able to write the electronic configurations of different orbits and different sub levels of orbits of an atom	●Has to find out the number of neutrons in four elements ● Has to draw the figure of structure of atom according to the Bhor's model ● Has to write the electronic configurations of energy level of four elements ● Has to write the electronic configurations of sub-energy level (orbitals) of four elements		

Indicator	Rating Scale				Score
	4	3	2	1	
a) Calculation of neutron number	Has found out the correct number of neutrons of four isotopes	Has found out the correct number of neutrons of 3 isotopes	Has found out the correct number of neutrons of 2 isotopes	Has found out the correct number of neutrons of 1 isotope	
b)Drawing of structure of atom according to Bhor's model	Has drawn the exact figure of four structure of atoms according to Bhor's model	Has drawn the exact figure of three structure of atoms according to Bhor's model	Has drawn the exact figure of two structure of atoms according to Bhor's model	Has drawn the exact figure of one structure of atom according to Bhor's model	
c) Electronic configuration of an energy level	Has written the electronic configurations of energy level of four elements correctly	Has written the electronic configurations of energy level of three elements correctly	Has written the electronic configurations of energy level of two elements correctly	Has written the electronic configuration of energy level of one element correctly	
d)Sub- energy level(orbitals) electronic configuration	Has written the electronic configurations of sub-energy level of four elements correctly	Has written the electronic configurations of sub- energy level of three elements correctly	Has written the electronic configurations of sub-energy level of two elements correctly	Has written the electronic configuration of sub- energy level of one element correctly	
				Total	
Total marks for this assignment: 16					

Marks Obtained	Comments
13-16	Excellent
11-12	Very good
08-10	Good
0-07	Needs improvement