

Assignment for the Candidates of SSC- 2021

Subject: Chemistry

Subject Code: 137

Level: SSC

Assign no., chapter and chapter title	Assignment	Learning outcomes/ Topics	Instructions (Hints/Steps)	Instruction of Evaluation (Rubric)					Remarks
01 Chapter: Three Structure of Matter.	Prepare a report on the number of neutrons in the mass of the element mentioned next to the symbol, the figure of atomic structure according to the Bohr model,the electronic configuration at the energy level and the electronic configuration at the energy sub level(Orbitals). 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- • calculate the number of electrons, protons and neutrons of an atom • Describe the Rutherford and Bohr models of atom’s structure. • arrange electrons of atoms in orbits and different sub-orbits.	• The neutron number of 4 elements has to be calculated. • The atomic structure of 4 elements has to be drawn according to the Bohr model. Electrons have to be arranged at the energy sub level (Orbitals) of 4 elements.	Indicator	Level of expertise/number				Score
					4	3	2	1	
				a) Calculation of neutron number	Accurately calculated the number of neutrons in each isotope of 4 elements.	Accurately calculated the number of neutrons in each isotope of 3 elements.	Accurately calculated the number of neutrons in each isotope of 2 elements.	Accurately calculated the number of neutrons in each isotope of 1 element.	
				b) Drawing of atomic structure according to Bohr model	According to Bohr model, the structure of the four atoms has been accurately drawn.	According to Bohr model, the structure of the three atoms has been accurately drawn	According to Bohr model, the structure of the two atoms has been accurately drawn	According to Bohr model, the structure of the one atom has been accurately drawn	
				c) Electronic configuration at energy level	Arranged the correct electronic configuration of 4 elements at the energy level.	Arranged the correct electronic configuration of 3 elements at the energy level.	Arranged the correct electronic configuration of 2 elements at the energy level.	Arranged the correct electronic configuration of 1 element at the energy level.	
				d) Electronic configuration at energy sublevel(Orbitals)	Arranged the correct electronic configuration of 4 elements at the energy sub level.	Arranged the correct electronic configuration of 3 elements at the energy sub level.	Arranged the correct electronic configuration of 2 elements at the energy sub level.	Arranged the correct electronic configuration of 1 element at the energy sub level.	
Total									

Assigned Marks : 16

Range of marks	Remarks
13-16	Excellent
11-12	Very Good
08-10	Good
00-07	Progress Needed

Assignment for the Candidates of SSC- 2021

Subject: Chemistry

Subject Code: 137

Level: SSC

Assign no., chapter and chapter title	Assignment	Learning outcomes/ Topics	Instructions (Hints/Steps)	Instruction of Evaluation (Rubric)					Remarks				
02 Chapter: four Periodic Table. .	<table><tr><td>Li</td><td>Be</td></tr><tr><td>Na</td><td>Mg</td></tr></table> In the light of the electronic configuration of the four elements, make a report on the position of the elements in the periodic table, comparative ionization energy and the properties of the groups or classes of corresponding elements.	Li	Be	Na	Mg	Students will be able to- - Determine the relation between the main group of the periodic table with outermost electronic configuration. - Can identify the period of an element. - Can explain the physical and chemical properties of the elements by knowing the position in periodic table. - give explanation of the special name of the elements. - Can predict the properties of the elements.	- Have to determine the period no using electronic configuration. - Have to determine the group no using electronic configuration. - Have to compare the ionization energy of the along period and group. - Have to explain the properties of the corresponding groups.	Indicator	Level of expertise/number				Score
		Li	Be										
		Na	Mg										
			4	3	2			1					
		a) Determination of the period	The period no of the four elements has determined accurately.	The period no of the three elements has determined accurately.	The period no of the two elements has determined accurately.			The period no of the one elements has determined accurately.					
		b) Determination of the group.	The group no of the four elements has determined accurately.	The group no of the three elements has determined accurately.	The group no of the two elements has determined accurately.			The group no of the one elements has determined accurately.					
		C) Comparative ionization potential.	Accurate Comparison of the ionization energy of the four pair’s elements.	Accurate Comparison of the ionization energy of three pairs of elements.	Accurate Comparison of the ionization energy of two pairs of elements.			Accurate Comparison of the ionization energy of one pairs of elements					
d) Group properties of the corresponding elements.	The features of the two groups explained properly with special group name.	The features of the two groups explained properly.	The features of the any one group explained properly with special name. .	The features of the any one group explained properly.									
Total													

Assigned Marks : 16

Range of marks	Remarks
13-16	Excellent
11-12	Very Good
08-10	Good
00-07	Progress Needed

Assignment Number, Chapter and Titles	Assignment	Learning outcome / Content	Instruction Indicators / Steps / Range	Instruction of Evaluation (Rubrics)	Comments																																																																																																																																																	
1 Chapter 2: Cells & Tissues of Organisms	Determination of Mentionable characteristics of plant cell and division of labour of tissue.	We will be able to ----- • Explain the functions of main organelles of plant cells. • Evaluate the appropriateness of cell. • Explain plant tissues. • Evaluate the functions of tissue on the basis of grouping the similar type of cells and performing the same action.	Step – 1 : See the page no: 20-21, 23-24 and 28-33 of the textbook. Step – 2: Draw the charts mentioned as below: Chart of observation: <table><tr><th rowspan="2">Specimen number</th><th rowspan="2">Colour</th><th colspan="3">Measurement of rigidity</th></tr><tr><th>Soft</th><th>Less Rigid</th><th>Comparatively rigid</th></tr><tr><td>1- Ripen Mango</td><td></td><td></td><td></td><td></td></tr><tr><td>Stalk</td><td></td><td></td><td></td><td></td></tr><tr><td>Peel</td><td></td><td></td><td></td><td></td></tr><tr><td>Kernel</td><td></td><td></td><td></td><td></td></tr><tr><td>Seed</td><td></td><td></td><td></td><td></td></tr><tr><td>2. Green Papaya</td><td></td><td></td><td></td><td></td></tr><tr><td>Stalk</td><td></td><td></td><td></td><td></td></tr><tr><td>Peel</td><td></td><td></td><td></td><td></td></tr><tr><td>Kernel</td><td></td><td></td><td></td><td></td></tr></table> Chart of Determination of reasons: <table><tr><th rowspan="2">Specimen number</th><th rowspan="2">Colour</th><th colspan="3">Measurement of rigidity</th></tr><tr><th>Soft</th><th>Less Rigid</th><th>Comparatively rigid</th></tr><tr><td colspan="5">1- Ripen Mango</td></tr><tr><td>Stalk</td><td></td><td></td><td></td><td></td></tr><tr><td>Peel</td><td></td><td></td><td></td><td></td></tr><tr><td>Kernel</td><td></td><td></td><td></td><td></td></tr><tr><td>Seed</td><td></td><td></td><td></td><td></td></tr><tr><td colspan="5">2. Green Papaya</td></tr><tr><td>Stalk</td><td></td><td></td><td></td><td></td></tr><tr><td>Peel</td><td></td><td></td><td></td><td></td></tr><tr><td>Kernel</td><td></td><td></td><td></td><td></td></tr></table>	Specimen number	Colour	Measurement of rigidity			Soft	Less Rigid	Comparatively rigid	1- Ripen Mango					Stalk					Peel					Kernel					Seed					2. Green Papaya					Stalk					Peel					Kernel					Specimen number	Colour	Measurement of rigidity			Soft	Less Rigid	Comparatively rigid	1- Ripen Mango					Stalk					Peel					Kernel					Seed					2. Green Papaya					Stalk					Peel					Kernel					<table><tr><th rowspan="2">Indicator</th><th colspan="4">Values of Abiltity / Marks</th><th rowspan="2">Score</th></tr><tr><th>4</th><th>3</th><th>2</th><th>1</th></tr><tr><td>a) Chart of observation of specimens of step 2</td><td>25-28 blanks of the chart filled up acceptably</td><td>15-24 blanks of the chart filled up acceptably</td><td>5-14 blanks of the chart filled up acceptably</td><td>1-4 blanks of the chart filled up acceptably</td><td></td></tr><tr><td>b) Reasons of different colours in the chart of determination of reasons in step 2</td><td>Accepted reasons are mentioned in 6-7 blanks of the chart</td><td>Accepted reasons are mentioned in 4-5 blanks of the chart</td><td>Accepted reasons are mentioned in 2-3 blanks</td><td>Accepted reasons is mentioned in one blank</td><td></td></tr><tr><td>3) Reasons of different values of rigidity in the chart of determination of reasons in step 2</td><td>Acceptable reasons are mentioned in each 6-7 blanks of the chart</td><td>Acceptable reasons are mentioned in 4-5 blanks of the chart</td><td>Acceptable reasons are mentioned in 2-3 blank</td><td>Accepted reasons is mentioned in one blank</td><td></td></tr><tr><td colspan="5">Total:</td><td></td></tr><tr><td colspan="5">Allotted total marks: 12</td></tr></table>	Indicator	Values of Abiltity / Marks				Score	4	3	2	1	a) Chart of observation of specimens of step 2	25-28 blanks of the chart filled up acceptably	15-24 blanks of the chart filled up acceptably	5-14 blanks of the chart filled up acceptably	1-4 blanks of the chart filled up acceptably		b) Reasons of different colours in the chart of determination of reasons in step 2	Accepted reasons are mentioned in 6-7 blanks of the chart	Accepted reasons are mentioned in 4-5 blanks of the chart	Accepted reasons are mentioned in 2-3 blanks	Accepted reasons is mentioned in one blank		3) Reasons of different values of rigidity in the chart of determination of reasons in step 2	Acceptable reasons are mentioned in each 6-7 blanks of the chart	Acceptable reasons are mentioned in 4-5 blanks of the chart	Acceptable reasons are mentioned in 2-3 blank	Accepted reasons is mentioned in one blank		Total:						Allotted total marks: 12					
			Specimen number			Colour	Measurement of rigidity																																																																																																																																															
				Soft	Less Rigid		Comparatively rigid																																																																																																																																															
			1- Ripen Mango																																																																																																																																																			
			Stalk																																																																																																																																																			
			Peel																																																																																																																																																			
			Kernel																																																																																																																																																			
			Seed																																																																																																																																																			
			2. Green Papaya																																																																																																																																																			
			Stalk																																																																																																																																																			
Peel																																																																																																																																																						
Kernel																																																																																																																																																						
Specimen number	Colour	Measurement of rigidity																																																																																																																																																				
		Soft	Less Rigid	Comparatively rigid																																																																																																																																																		
1- Ripen Mango																																																																																																																																																						
Stalk																																																																																																																																																						
Peel																																																																																																																																																						
Kernel																																																																																																																																																						
Seed																																																																																																																																																						
2. Green Papaya																																																																																																																																																						
Stalk																																																																																																																																																						
Peel																																																																																																																																																						
Kernel																																																																																																																																																						
Indicator	Values of Abiltity / Marks				Score																																																																																																																																																	
	4	3	2	1																																																																																																																																																		
a) Chart of observation of specimens of step 2	25-28 blanks of the chart filled up acceptably	15-24 blanks of the chart filled up acceptably	5-14 blanks of the chart filled up acceptably	1-4 blanks of the chart filled up acceptably																																																																																																																																																		
b) Reasons of different colours in the chart of determination of reasons in step 2	Accepted reasons are mentioned in 6-7 blanks of the chart	Accepted reasons are mentioned in 4-5 blanks of the chart	Accepted reasons are mentioned in 2-3 blanks	Accepted reasons is mentioned in one blank																																																																																																																																																		
3) Reasons of different values of rigidity in the chart of determination of reasons in step 2	Acceptable reasons are mentioned in each 6-7 blanks of the chart	Acceptable reasons are mentioned in 4-5 blanks of the chart	Acceptable reasons are mentioned in 2-3 blank	Accepted reasons is mentioned in one blank																																																																																																																																																		
Total:																																																																																																																																																						
Allotted total marks: 12																																																																																																																																																						
			Step – 3: At first observation charts have to fill up. At the time of																																																																																																																																																			

			eating fruits and vegetables by peeling off their outer covering / peels using hands, knives and cutter, rigidity of each part have to observe and have to give tick mark in those blanks. If any characteristic will not applicable, in any blank, cross mark have to give. But colour's name have to write. Step – 4: Reasons of the characteristics have to write in the blanks of determination of reason in equivalent blanks of the observation chart. Total seven blanks of reasons of colours have to fill up. In case of different values of rigidity only reasons have to mention in those blanks, which are related to the blanks of observation chart given tick marks. No need to mention reasons in cross marked blanks. So, reasons of difference of values of rigidity will be total seven. Rest blanks of determination of reasons have not to fill up. • During cutting with sharp instruments, you have to be very careful so that hands will not cut. So this work must be done under the supervision of the elders of the family.		
--	--	--	---	--	--

Range of Marks	Comments
10-12	Excellent
08-09	Very good
06-07	Good
0-05	Progress Needed

Assignment for the candidates of SSC-2021

Subject: Accounting

Subject Code: 146

Stage: SSC

Assignment No, Chapter and Title of chapter	Assignment	Learning outcomes/Contents	Instructions (Hints/step/scope)	Evaluation Guidelines (Rubrics)					Remarks	
02 Chapter-6: Journal	General Journal Helpful Information: The following transactions are of Shams Brothers on January 2020: Jan-1 Started business with cash Tk. 30,000, bank balance Tk. 40,000 and goods Tk. 15,000. Jan- 5 Goods sold Tk.20, 000 which includes 40% in cash. Jan-7 Withdrew from bank Tk. 12,000. Jan-10 Publicity expense Tk. 8,000.	* Explain the concept and importance of Journal. * Classify Journal * Provide General Journal Entry.	* Helpful information should read well. * Describe the concept and importance of Journal. * Describe the classification of special Journal and Journal proper. * Journal should be prepared using supporting information.	Instructor	Performance Criteria/ Number				Score	
					4	3	2	1		
				a) Concept and importance of Journal	If you describe the concept and importance of Journal properly.	If you describe the concept and most of the importance of Journal.	If you describe the concept and the minimum importance of Journal.	If you write the minimum idea or importance of Journal.		
				b) Classified special Journal	If you describe the classification of special Journal properly.	If you describe any 4 classes of special Journal.	If you describe any 3 classes of special Journal.	If you describe any 2 classes of special Journal or the name of two classes.		
				c) Classified Journal proper.	If you describe the classification of Journal proper correctly.	If you describe any 3 classes of Journal proper.	If you describe any 2 classes of Journal proper.	If you mention any one class of Journal proper or described.		
				d) Recording transactions in Journal.	If you record 4 transactions in Journal properly.	If you record 3 transactions in Journal.	If you record 2 transactions in Journal.	If you record 1 transaction in Journal.		
				Total						
				Number assigned for assignment :16						

Marks range	Remarks
13-16	Excellent
11-12	Very good
08-10	Good
0-07	Progress needed