Assignment for SSC Examinees, 2021

Subject: Biology

Subject Code: 138

Level SSC

Subject. D	101063		-		Subject Code:	: 138				L	evel: S	SC
Assignment Number, Chapter Number, Chapter Title	Assignment	Learning outcomes	Guidelines	(cues/steps o	or stages)		Asse	essment Crite	rion /Rubric			Cor
	Determining the effects	Learners will be able to	1.Firstly, read pages 71- textbook	-72 and 74-75 (of the Biology	Indicator						
03	of different	be able to	2. To carry out the	evneriment e	escentiale are to be	ALLES SELECTION OF THE PARTY OF	4	Ratio	g Scale		Score	
Chapter 04 Bioenergetics	factors on releasing oxygen during Photosynth- esis through comparative experiment and outcome analysis	- explain the role of chlorophyll and light in photosynthesis; -describe the factors' role in photosynthesis;	collected: transparent g watch (stopwatch is be vinegar (or citron juic available, laundry soap plant (such as wat hyacinth/hydrilla etc.) 3. Following tables need page	lass (or any of etter but norma e) any type will do), clea er spinach/co	ther transparent pot), al watch is enough), of detergent (if not in water and aquatic mmon hydra/water	a) Carrying out of the experiments (table-1)	All six experiments are carried out acceptably and descriptions noted	Out of six experiments 4-5 experiments are carried out acceptably and description noted	Out of six experiments 2-3 experiments are carried out acceptably and description noted	Out of six experiments, only one experiment is carried out acceptably and description noted		
	anarysis	-to examine the necessity of chlorophyll and light in the process of photosynthesis.	Effects of factor A A-1 Plant submerged in clean water kept in	No. of air bubbles per minute	Reason of bubble no to be different or not	b) Comparative explanation of factors' effects (table-	Effect of three factors explained acceptably.	Effect of two factors explained acceptably.	Effect of one factor explained acceptably.	Effect of factors is explained but no one in an acceptable way.		
		photosynthesis.	direct sunlight A-2 Plant submerged in clean water kept in shades			c) Citing the factor's real name (Table -2)	The real names of the three factors are cited	The real names of the two factors are	The real name of one factor is cited	The real name of no factors is cited		
			B-1 Plant submerged in clean water kept at room temperature B-2 Plant submerged in lukewarm water				according to the textbook.	cited according to the textbook.	according to the textbook.	according to the textbook, but the alternate name of one factor is cited		
			Effects of factor C			d) When does	All six	Out of six	0 + 5 :	acceptably.		
			C-1 Plant submerged in half teaspoonful (big) vinegar (or lemon juice) mixed water. C-2 Plant submerged			the rate of photosynthesis decrease or increase	situations are cited acceptably.	Out of six situations, 4-5 situations are cited acceptably.	Out of six situations, 2-3 situations are cited acceptably.	Out of six situations, only one situation is cited acceptably		
		- 1	in half				Total	arke for this -	mlanme-t-17	Tota-I		
			teaspoonful(big)	HIS THE	South and Toylor		10tal m	arks for this a	ssignment:16			

detergent (or soap) mixed water.

Table-2 Rate of Photosynthesis

Factor	Real	When does the rate of photosynthesis increase	When does the rate of photosynthesis decrease
a			
b			
c			

- 4. A sunny day is to be selected for the experiment. The same amount of water should be used for each experiment so that plant parts are submerged fully. The same plant should be used in each experiment. But every time water must be changed and all things must be washed properly with clean water.
- 5. After setting all six experiments, in every case after one hour in every one minute, bubble numbers are to be noted three times. The average of three counts will be the bubble number per minute, That number has to be written in the required parts of table-1.
- 6. Causes of differentiation or no differentiation of bubble number to be explained through comparisons in pair A-1 vs A-2, B-1 vs B-2 and C-1 vs C-2, Every explanation should be in 20-30 words.
- 7. In table 2 real name of (according to the textbook) factors should be written. At the same time, when the photosynthesis rate increases or decreases affected by the mentioned factors is to be cited.
- 8. Special attention is needed so that the experiments are carried out sequentially starting from the morning.

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

Assignment for SSC Examinees, 2021

Subject: Higher Mathematics

Subject Code: 126

Level: SSC

Assignment			Subject	1 Code: 126					Level:
Number, Chapter Number, Chapter Title	Assignment	Learning Outcomes	Guidelines (cues/steps or stages)			Assessment (Criterion /Rubri	c	
02	The solution of the straight line	Explain the rectangular	a. Find the coordinate of the point	To Resident	W			P. Kerry III Took	
	related problem	Cartesian	A and draw the straight line. Then identify point A. (Determine the	Indicator		R	ating Scale		Score
Chapter	by using	coordinate	equation then verify the point	indicator	4	3	2	1	
Eleven:	coordinate Geometry:	system. • Find the	A(m,5) and find the value of m. Draw the straight line in the graph	a		Drew the line and identified the point A.	Found the coordinate of	Determined the equation.	
Geometry	The age of Mina is 1 year less than twice the age of	distance between two points. • Explain the	paper using suitable unit and identify the point A). b. If the points P and Q are equidistant from $R(h, -2)$ then	b		Found the value of h.	A. Determined PR or QR	Found the coordinate of P or Q.	
	Raju. Suppose Mina's age is <i>y</i> while Raju's is <i>x</i> . The relation	concept of slope (gradient) of a straight line	find the value of h. (Determine the coordinates of P and Q. Find the value of h using the formula of measuring the	c		Found the coordinate of S.	Applied the appropriate condition of colinear.	Wrote the formula of area or slope by the points.	
	between their age can be expressed through an equation. Considering x and y are two variables we get a straight line from the equation. A	Find the equation of a straight line. Determine the area of a triangle using coordinate system. Present an	distance.) c. If P, Q and S(2a, a-2) are collinear then find the coordinate of S. (Find the coordinate of S by using the formula of area or slope). d. Find the equation of the straight line which passes through the point	d		Found the equation of straight line which passes through the point $\left(\frac{1}{4}, 2\right)$.	Costructed a formula of straight line which passes through the point $\left(\frac{1}{4}, 2\right)$ by using the slope.	Found the slope of AP.	
	(m,5) is a point on	equation of a	$\left(\frac{1}{4}, 2\right)$ and is parallel to the line AP.				CV-	Total-	
	the straight line. The straight line intersects the x and y axis at the points P and Q.	straight line by plotting points.		7	Total marks for t	his assignment:	12		

Marks Obtained	Comments
10-12	Excellent
08-09	Very good
06-07	Good
00-05	Needs improvement

Assignment for SSC Examinees, 2021 Subject Code: 136

Subject: Physics

Level: SSC

Assignment Number, Chapter Number, Chapter Title	Assignment	Learning Outcomes	Guidelines (cues/steps or stages)		Ass	sessment Cri	terion /Rubric			Com'
3	A stone of mass 75 kg is released from a	Students will be able to	Follow the text on pages 47-49			D	ating Scale			
	height of 40 meters.	explain the	of the textbook.	Indicator	4	3	ating Scale		Score	
Chapter 02: Motion Chapter 04:	a) What is the total energy of the body at a height of 40	motion of freely falling body	Follow the text on pages 100-	a) Total energy of the body at the height of 40 meters	-	3	If student can determine the total energy	If student can write the equation of total energy	3.02	
Work, Power and Energy	meters? 2 b) Explain, at the height of 40 meters the total energy of the body is having how many forms. 2	Students will be able to explain kinetic energy and potential	108 of the textbook.	b) An explanation in how many forms are there in total energy of the body at the height of 40 meters			If student can explain how many forms are there in total energy.	If student can write what is the transformed energy		
	c) Explain the change of energy by drawing two graphs of the time-kinetic energy and the time-potential energy change of the body for every 10	energy		c) Explaining the change of energy by drawing graph	If student can explain changes in time-kinetic energy and time-potential energy by drawing graphs	If student can draw graphs of kinetic energy and potential energy with time	If student can draw a graph of kinetic energy or potential energy with time	If student can write the equations of kinetic and potential energy		
	meters if the body is to fall freely.4 d) Show that from the graph at what height potential energy and kinetic energy of the body are same and show what portion that is of the total			d) In the graph, show the height at which the potential energy and kinetic energy of the body are equal and show what portion that is of the total height.			If student can show at what height potential energy and kinetic energy of the body are same and can show what portion that is of	If student can show at what height potential energy and kinetic energy of the body are same or can show that height is what portion of the		U.S.
	height. 2						the total height	total height.		
					Total	marks for this	assignment:10	1001-		

Marks Obtained	Comments
09-10	Excellent
07-08	Very good
05-06	Good
0-04	Needs improvement