

NPTEL » Bioenergy





Announcements

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Mentor

Unit 4 - Week 2: Basics of Biomass Technology & Biomass Resources

Course outline	Assignment 2	
How to access the portal	The due date for submitting this assignment has passed.	Due o
Pre-requisite assignment	As per our records you have not submitted this assignment.	
Week 1: Introduction to Bioenergy	 1) 1. Balance the following reaction in acidic medium: xH₂O + yFe³⁺ -> zO₂ + wFe⁺² X = 1, y = 4, z = 1, w = 4 	
Week 2: Basics of Biomass Technology & Biomass Resources	x = 2, y = 4, z = 1, w = 4 x = 2, y = 1, z = 3, w = 1 x = 5, y = 4, z = 7, w = 3	
 Lecture 06 - Basic Biomass Technology (Resources and Production) 	No, the answer is incorrect. Score: 0 Accepted Answers: x = 2, $y = 4$, $z = 1$, $w = 4$	
Lecture 07 - Basics of Mechanism of Light Reaction	Formation of biomass deep under the ocean in the absence of sunlight is termed as	
 Lecture 08 - Exploration of Photosynthesis Process 	ophotosynthesis chemosynthesis	
Oxygen Comes from Water Molecule	algal synthesis bacterial synthesis No, the answer is incorrect.	
CLecture 10 - Hill Reaction	Score: 0 Accepted Answers:	
○ Quiz : Assignment 2	chemosynthesis	
CLecture Notes	Formation of biomass on earth, using sun as a source of energy, is termed as	
O Solutions - Assignment 2	photosynthesis	
○ Feedback for Week 2	chemosynthesis	
Week 3: Biofuels I	algal synthesis	
Week 4: Biofuels II	No, the answer is incorrect.	
Week 4: Biofuels III	Score: 0 Accepted Answers: photosynthesis	
Week 6: Bio Power I	In photosynthesis, water undergoes process to produce oxygen	
Week 7: Bio Power II	oxidation	
Week 8: Bioenergy Distribution & End Use For a Sustainable Future	reduction neutralisation salting No, the answer is incorrect. Score: 0 Accepted Answers:	
	oxidation	
	5) PSI ejects an electron to generate reducing power in form of	
	O NA DRH	

Assignment 2 The due date for submitting this assignment has passed.	Due on 2010-09-21, 22:50 IST
As per our records you have not submitted this assignment.	Due on 2019-08-21, 23:59 IST.
1) 1. Balance the following reaction in acidic medium : $xH_2O + yFe^{3+} \longrightarrow zO_2 + wFe^{+2}$ $\begin{array}{c} x = 1, \ y = 4, \ z = 1, \ w = 4 \\ x = 2, \ y = 4, \ z = 1, \ w = 4 \\ x = 2, \ y = 1, \ z = 3, \ w = 1 \\ x = 5, \ y = 4, \ z = 7, \ w = 3 \end{array}$ No, the answer is incorrect. Score: 0 Accepted Answers: $x = 2, \ y = 4, \ z = 1, \ w = 4$	1 point
2) Formation of biomass deep under the ocean in the absence of sunlight is termed as photosynthesis chemosynthesis algal synthesis bacterial synthesis	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: chemosynthesis	
3) Formation of biomass on earth, using sun as a source of energy, is termed as photosynthesis chemosynthesis algal synthesis bacterial synthesis No, the answer is incorrect.	1 point
Score: 0 Accepted Answers:	
4) In photosynthesis, water undergoes process to produce oxygen oxidation reduction neutralisation salting	1 point
No, the answer is incorrect. Score: 0	
Accepted Answers: oxidation	
5) PSI ejects an electron to generate reducing power in form of ATP NADPH Mn Chlorophyll	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: NADPH	
6) reaction in photosynthesis is involved in biomass production Light	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: Dark	
7) The evolved oxygen in photosynthesis directly comes from Carbon di oxide Water Sun Carbohydrate	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: Water	
8) Oxygen evolution decreases beyond, this is called red drop 80 nm 280 nm 480 nm 680 nm	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: 680 nm	
9) Which two organelles have their own DNA Vacuole and lysosomes Mitochondria and chloroplast Vacuole and chloroplast Lysosomes and chloroplast	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: Mitochondria and chloroplast	
Mitochondria and chloroplast 10) The 'R' group in chlorophyll a is	1 point
Alkyl Allyl Ketone Aldehyde	
No, the answer is incorrect. Score: 0 Accepted Answers: Alkyl	