

NPTEL » Bioenergy





Announcements

About the Course

Ask a Question

Mentor **Progress**

Unit 9 - Week 7: Bio Power II

Course outline	Assignment 7
How to access the portal	The due date for submitting this assignment has passed.
Pre-requisite assignment	As per our records you have not submitted this assignment.
Week 1: Introduction to Bioenergy	Iiquefaction involves hydrothermal liquefaction and rapid pyrolysis to produce liquid tars and oils and/ or co Direct
Week 2: Basics of Biomass Technology & Biomass Resources	Indirect Simple Complex
Week 3: Biofuels I	No, the answer is incorrect. Score: 0
Week 4: Biofuels II	Accepted Answers: Direct
Week 5: Biofuels III	2) liquefaction involves the use of catalyst to convert non condensible, gaseous products of pyrolysis or gas
Week 6: Bio Power I	○ Direct ○ Indirect
Week 7: Bio Power II	○ Simple ○ Complex
 Lecture 31 - Introduction of Gasification 	No, the answer is incorrect. Score: 0
Lecture 32 - Thermo Chemical Process of Gasification	Accepted Answers: Indirect
Lecture 33 - Feed Stock Treatment of Gasification	3) The fraction of pyrolysis products consists of two phases: an aqueous phase containing a wide variety of low molecular weight and a non aqueous phase containing insoluble organics of high molecular weight
CLecture 34 - Feed Stock Property	○ solid ○ liquid
 Lecture 35 - Gasification Types - Up Drift Gasifier 	gas plasma
C Lecture Notes	No, the answer is incorrect. Score: 0
Ouiz : Assignment 7	Accepted Answers:
Feedback for Week 7	liquid
O Solutions - Assignment 7	4) is a process by which biomass is converted into combustible gaseous product.
Week 8: Bioenergy Distribution & End Use For a Sustainable Future	Combustion Hydrolysis Gasification Hydrogenation

Assignment 7	
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-09-18, 23:59	IST.
Iliquefaction involves hydrothermal liquefaction and rapid pyrolysis to produce liquid tars and oils and/ or condensible organic vapours Direct Indirect Simple Complex	1 point
No, the answer is incorrect. Score: 0	
Accepted Answers: Direct	
2) liquefaction involves the use of catalyst to convert non condensible, gaseous products of pyrolysis or gasification into liquid products Direct Indirect Simple Complex	1 point
No, the answer is incorrect. Score: 0 Accepted Answers: Indirect	
3) The fraction of pyrolysis products consists of two phases: an aqueous phase containing a wide variety of organo-oxygen compounds of	1 point
w molecular weight and a non aqueous phase containing insoluble organics of high molecular weight solid liquid gas plasma	
No, the answer is incorrect. Score: 0 Accepted Answers: liquid	
4) is a process by which biomass is converted into combustible gaseous product. Combustion	1 point
Hydrolysis Gasification Hydrogenation No, the answer is incorrect.	
Score: 0 Accepted Answers: Gasification	
5) Advantages of gasification are	1 point
Standardisation of gas to ensure quality Versatile usage of product than biomass Gas can be used to produce biofuel All of the above	
No, the answer is incorrect. Score: 0 Accepted Answers: All of the above	
6) Gasification at high is called process Otemperature, biochemical	1 point
temperature, thermochemical pressure, biochemical pressure, thermochemical	
No, the answer is incorrect. Score: 0 Accepted Answers: temperature, thermochemical	
7) A engine is a device that converts thermal energy into mechanical output	1 point
 electrical engine magnetic engine heat engine water engine 	
No, the answer is incorrect. Score: 0 Accepted Answers:	
heat engine 8) The calorific value of 'low calorific value gas' obtained via gasification is around	1 point
0.1-0.4 MJ/Nm ³ 40 MJ/Nm ³ 4-6 MJ/Nm ³ 12-18 MJ/Nm ³	
No, the answer is incorrect. Score: 0 Accepted Answers: 4-6 MJ/Nm³	
9) Use of air as a gasifying agent gives product gas of low CV because of presence of high percentage of in air	1 point
hydrogen nitrogen oxygen carbon	
No, the answer is incorrect. Score: 0 Accepted Answers: nitrogen	
10) Which of these is not a gasification types	1 point
Fixed bed Fluidised bed Entrained suspension gasifier Fractionation	
No, the answer is incorrect. Score: 0 Accepted Answers: Fractionation	