

Unit 8 - Week 6: Bio Power I

Course outline

How to access the portal

Pre-requisite assignment

Week 1: Introduction to Bioenergy

Week 2: Basics of Biomass Technology & Biomass Resources

Week 3: Biofuels I

Week 4: Biofuels II

Week 5: Biofuels III

Week 6: Bio Power I

- Lecture 26 - Classification of Pyrolysis
- Lecture 27 - Bio Oil - (Solution for Thermal Instability and Corrosivity)
- Lecture 28 - Spark Ignition Engine
- Lecture 29 - Compression Ignition Engine
- Lecture 30 - Carbonization - Graphene like material
- Lecture Notes
- Quiz : Assignment 6**
- Solutions - Assignment 6
- Feedback for Week 6

Week 7: Bio Power II

Week 8: Bioenergy Distribution & End Use For a Sustainable Future

Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-11, 23:59 IST.

- 1) The _____ stroke is the second of four stages in an Otto cycle or diesel cycle internal combustion engine **1 point**
- exhaust
 - compression
 - induction
 - cylinder

No, the answer is incorrect.
Score: 0

Accepted Answers:
compression

- 2) _____ is a figure indicating the anti-knock properties of a fuel based on a comparison with a picture of iso-octane and heptane **1 point**
- Carbon number
 - Propane number
 - Octane number
 - Fuel number

No, the answer is incorrect.
Score: 0

Accepted Answers:
Octane number

- 3) A two stroke engine is an internal combustion engine which completes a power cycle with two strokes of the piston during _____ crank shaft revolution **1 point**
- one
 - two
 - three
 - four

No, the answer is incorrect.
Score: 0

Accepted Answers:
one

- 4) The step 3 in spark ignite engine is **1 point**
- Closing of Intake valve
 - Opening of Intake valve
 - Intake stroke
 - Upward stroke

No, the answer is incorrect.
Score: 0

Accepted Answers:
Upward stroke

- 5) Vegetable oil _____, is commonly referred to as biodiesel **1 point**
- alkanes
 - alkynes
 - (m)ethyl esters
 - (m)ethyl benzene

No, the answer is incorrect.
Score: 0

Accepted Answers:
(m)ethyl esters

- 6) Fibroin and sericin are present in which of these natural products **1 point**
- Lac
 - Silk
 - Fruits
 - Sunlight

No, the answer is incorrect.
Score: 0

Accepted Answers:
Silk

- 7) The slope of temperature versus time curve for slow pyrolysis is generally **1 point**
- less than 0
 - less than 1
 - always equal to 1
 - greater than 1

No, the answer is incorrect.
Score: 0

Accepted Answers:
less than 1

- 8) Which of these is a property of Zeolites **1 point**
- cannot trap significant amount of water
 - unstable at high temperatures and pressures
 - cannot trap cations
 - can be used as reaction vessel

No, the answer is incorrect.
Score: 0

Accepted Answers:
can be used as reaction vessel

- 9) Octane number of ethanol is **1 point**
- 0.6
 - 6
 - 96
 - 606

No, the answer is incorrect.
Score: 0

Accepted Answers:
96

- 10) In intake stroke, _____ moves in **1 point**
- Only air
 - Only water
 - Only fuel
 - Air + fuel mixture

No, the answer is incorrect.
Score: 0

Accepted Answers:
Air + fuel mixture