Assignment 3

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

Due on 2021-02-10, 23:59 IST.

1) The production of bio ethanol is by fermenting the _______ and starch components.
   - Acid
   - Alkal
   - Sugar
   - Alcohol
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Sugar
   - 1 point

2) Biomass is useful to produce _______.
   - Methane gas
   - Ethanol
   - Biogas
   - All of the above
   - No, the answer is incorrect. Score: 0
   Accepted Answers: All of the above
   - 1 point

3) The term biomass most often refers to _______.
   - Inorganic materials
   - Organic matters
   - Chemicals
   - Ammonium compounds
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Organic matters
   - 1 point

4) The aerobic digestion of sewage is used to produce _______.
   - Biomass
   - Biofuels
   - Synthetic fuels
   - Metal hydrides
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Biofuels
   - 1 point

5) What is the main source of wind formation?
   - Earth rotation
   - Sun
   - Farm land
   - Seasons
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Sun
   - 1 point

6) Wind turbine uses _______ energy.
   - Kinetic
   - Potential
   - Thermal
   - Chemical
   - No, the answer is incorrect. Score: 0
   Accepted Answers: Kinetic
   - 1 point

7) In a sensible-thermal energy storage system, storage tanks of 3 m in diameter are used to store water from 3 bar to 10 bar. Consider water mean density, specific heat the specific enthalpy of saturated liquid at 125°C and 180°C are 980 kg/m³, 4.35 kJ/kg, K, 500 kJ/kg and 760 kJ/kg, respectively. Calculate the total energy (kJ/m²) that can be stored if the mass of water is 1.5 x 10^3 kg.
   - No, the answer is incorrect. Score: 0
   Accepted Answers: 39
   - 2 points

8) Consider a solar technology project with the initial cost of €70,000, net positive annuity of €14,000/yr for 15 years, and a salvage value in the end of that term of €3,000. Calculate the net present value of the project in terms of €.
   - No, the answer is incorrect. Score: 0
   Accepted Answers: 1.43
   - 2 points