

Name:
Enrolment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES
Online End Semester Examination, December 2021

Course: Understanding New & Green Energy Sector
Program: BBA(GES)
Course Code: OGET1003

Semester: I
Time: 3 Hours
Max. Marks: 100

	SECTION A Explain the following in 2 lines	10Qx2M=20Marks	Cos
Q1	Advantages of Solar PV cells.		CO 2
Q2	Concept of Bioenergy		CO 1
Q3	Hydrothermal geothermal energy		CO 1
Q4	Uses of hydrogen cells		CO 2
Q5	Features of Solar Park scheme		CO 2
Q6	Environmental Issues of large-scale dam hydropower projects		CO 2
Q7	Objectives of National Solar Mission, 2010		CO 2
Q8	Petrothermal energy production		CO 1
Q9	Basic configurations of Hydropower systems		CO 1
Q10	Storage technologies of Small Hydro		CO 1
	Section B	4Qx5M= 20 Marks	
Q11	Illustrate the carbon cycle for Bioethanol production.		CO 1
Q12	Explain the various uses of Geothermal Energy.		CO 1
Q13	Describe any 5 criteria for setting up solar driers.		CO 2
Q14	Define the tidal range technologies used for power generation		CO 2
	Section C	3Qx10M=30Marks	
Q15	Tidal energy installations have a minimal effect on the landscape, with negligible emissions and noise. However, there are a number of barriers that needs to be overcome. Elucidate.		CO 3
Q16	Analyse the benefits and downsides of installing Solar Energy power stations OR Evaluate the ways in which Solar PV is applied in developing countries		CO 4
Q17	Explain the biomass conversion technologies in detail.		CO 3

	Section D	2Qx15M=30Marks	
Q18	Interpret the various advantages and disadvantages of setting up a geothermal power plant across the globe.		CO 3
Q19	Analyze the numerous types of biomass that can be used for heat, electricity and transportation fuels. OR Evaluate a number of factors that underpin the inherent flexibility of a power system and, how hydropower can contribute in attaining the same.		CO 4