



Name:

Enrolment No:

UPES
End Semester Examination, December 2024

Program: BBA (OGM)

Semester: V

Course: Understanding New Energy Resources

Time: 3 hrs

Course Code: OGOG 3002

Max. Marks: 100

Instructions: Attempt all questions

SECTION A
10Qx2M=20Marks

S. No.	Define the following terms in two lines	Marks	CO
Q 1	Advantages of Solar PV cells.	2	CO 1
Q 2	Concept of Bioenergy	2	CO 1
Q 3	Solar grid connected	2	CO 1
Q 4	Landfill Gas	2	CO 1
Q 5	Biomass energy conversion technologies	2	CO 1
Q 6	Objectives of National Solar Mission, 2010	2	CO 1
Q 7	Benefits of Electric Vehicle	2	CO 1
Q 8	Is Small Hydro a renewable resource	2	CO 1
Q 9	Uses of Hydrogen fuel cells	2	CO 1
Q 10	Energy conservation	2	CO 1

SECTION B
4Qx5M= 20 Marks

	Answer the following questions in brief		
Q 1	Illustrate the carbon cycle for Bioethanol production.	5	CO 1
Q 2	Explain the various uses of Geothermal Energy.	5	CO 1
Q 3	Explain the progress made so far in terms of solar park scheme in India.	5	CO 2
Q 4	Describe the potential of Wind solar hybrid technologies in India	5	CO 2

SECTION-C
3Qx10M=30 Marks

Q 3	Answer the following questions in detail		
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a	Examine the barriers of Wind energy in India	10	CO 2
b	Analyse the benefits and downsides of installing Solar PV.	10	CO 2
c	Explore the salient features of Green Hydrogen policy notified by the Government of India on 17 th February 2022	10	CO 3
SECTION-D			
2Qx15M= 30 Marks			
Q4	Answer the following questions in detail		
a	Tidal energy installations have a minimal effect on the landscape, with negligible emissions and noise. However, there are a number of barriers that need to be overcome across the globe. Elucidate.	15	CO 3
b	Analyze the numerous types of biomass that can be used for heat, electricity and transportation fuels.	15	CO 2