



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Understanding New Energy Resources

Program: BBA (Oil and Gas Marketing)

Course Code: OGOG2004

Semester: VI

Time : 03 hrs.

Max. Marks: 100

Instructions: Attempt all the questions

SECTION A
10Qx2M=20Marks

| S. No. | Define the following terms in two lines | Marks | CO |
|--------|---|-------|------|
| Q 1 | Two objectives of wind-solar hybrid policy in India | 2 | CO 1 |
| Q 2 | Woody Biomass | 2 | CO 1 |
| Q 3 | Printable organic solar cells | 2 | CO 1 |
| Q 4 | Landfill gas | 2 | CO 1 |
| Q 5 | Challenges in the development of solar parks in India | 2 | CO 1 |
| Q 6 | Uses of hydrogen cells | 2 | CO 1 |
| Q 7 | Biomass gasification technology | 2 | CO 1 |
| Q 8 | Agricultural waste | 2 | CO 1 |
| Q 9 | Renewable energy sources | 2 | CO 1 |
| Q 10 | Green Hydrogen | 2 | CO 1 |

SECTION B
4Qx5M= 20 Marks

| | Answer the following questions in brief | | |
|----|--|---|------|
| Q1 | Illustrate the bioenergy production routes | 5 | CO 1 |
| Q2 | Explain the various applications of solar energy. | 5 | CO 2 |
| Q3 | Discuss the potential of electric vehicles in India. | 5 | CO 2 |
| Q4 | Describe how a wind turbine works | 5 | CO 1 |

SECTION-C
3Qx10M=30 Marks

| | | | |
|-------------------------|---|-----------|-------------|
| | Answer the following questions in detail | | |
| Q1 | Geothermal energy installations have a minimal effect on the landscape, with negligible emissions and noise. However, several barriers need to overcome. Elucidate. | 10 | CO 2 |
| Q2 | Analyze the benefits and downsides of installing offshore wind energy power stations in India. | 10 | CO 3 |
| Q3 | Evaluate the potential and issues the Government faces to consider nuclear energy for energy security. | 10 | CO 3 |
| SECTION-D | | | |
| 2Qx15M= 30 Marks | | | |
| | Answer the following questions in detail | | |
| Q1 | Interpret the various advantages and disadvantages of setting up a tidal power plant across the globe. | 15 | CO 2 |
| Q2 | Critically analyze the features of COP27 held in Egypt in November 2022. | 15 | CO 3 |