



- a) 200°C    b) 900°C    c) 650°C    d) 20°C
- g)** 9. The hole on earth's surface from where the steam from the earth comes out is called as \_\_\_\_\_  
 a) Gash                    b) Mud pot                    c) Void                    d) Fumarole
- h)** The main composition of biogas is \_\_\_\_\_  
 a) Methane                    b) Carbon dioxide  
 c) Nitrogen                    d) Hydrogen
- i)** Which of the following is used to produce biogas from biomass?  
 a) Anaerobic treatment                    b) Aerobic treatment  
 c) Fermentation                    d) Pyrolysis
- j)** Where is the largest Wind Farm located in India?  
 a) Jaisalmer Wind Park, Rajasthan  
 b) Muppandal Wind Farm, Tamil Nadu  
 c) Lamba bandar, porbandar, Gujarat  
 d) Chakala Wind Farm, Maharashtra
- k)** Who first recognized the OTEC?  
 a) d'Arsonval                    b) Alexander Edmond Becquerel  
 c) James Prescott joule                    d) LA Rance
- l)** Which is the type of energy where the energy is harnessed by the heat accumulated on the surface of water?  
 a) Wind energy                    b) Wave energy  
 c) Ocean thermal energy conversion                    d) Solar energy
- m)** The energy management function is generally vested in –  
 (a) Senior Management  
 (b) One energy manager or co-ordinator  
 (c) Distributed among number of middle manager  
 (d) (b) & (c) together
- n)** An energy policy does not include...  
 a) Target energy consumption reduction  
 b) Time period for reduction  
 c) Declaration of top management commitment  
 d) Future production projection



**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Discuss the advantages of renewable energy sources.	7
b)	Design consideration for solar energy collectors	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Compare different renewable energy sources development in India	7
b)	Compare and contrast the solar angles and derived solar angles.	7
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Summarize site selection procedure for wind mills for power generation	7
b)	List the utility systems working with solar energy and discuss any two in brief.	7
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Classify Bio Gas plants.	7
b)	List advantages and disadvantages of Geothermal energy as compared to Wind energy	7
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Illustrate the stages of anaerobic digestion process	7
b)	Describe the construction and working of OTEC system based on closed cycle with help of schematic diagram.	7
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Show the significance of Energy Audit for a firm.	7
b)	Explain operating principle of Microhydel Power Plant.	7
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
a)	Tell the meaning of <i>star rating</i> assigned to electrical appliances.	7
b)	List and explain the components of a Microhydel power plant.	7

