

Q.21 Describe the working of MHD power generation system? (CO2)

Q.22 Give four differences between battery and fuel cell? (Co5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Classify and explain various resources of energy? (CO1)

Q.24 Explain the wet process of biomass conversion method. (CO2)

Q.25 Explain the various ocean thermal energy conversion cycles. (CO3)

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2nd Sem / Electrical

Subject : Non Conventional Sources of Energy

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following is a disadvantage of solar power? (CO1)

- a) High initial installation cost
- b) Limited availability in certain geographic locations
- c) Intermittent energy production due to weather conditions
- d) All of the above

Q.2 Which of the following is the largest conventional source of energy? (CO1)

- a) Coal
- b) Natural Gas
- c) Nuclear Power
- d) Hydroelectric Power

Q.3 The term hydro energy most often refers to _____
(CO3)

- a) Energy generated from ocean waves
- b) Energy produced from tidal movements
- c) Electricity generated from flowing water
- d) Heat extracted from geothermal reservoirs

Q.4 Which of the following components is essential in a wind energy conversion system? (CO4)

- a) Photovoltaic panels b) Steam turbine
- c) Wind turbine d) Diesel generator

Q.5 Which of the following is a form of ocean energy conversion? (CO3)

- a) Solar power b) Wind power
- c) Tidal power d) Geothermal power

Q.6 Which of the following is a method of energy storage? (CO5)

- a) Wind turbines b) Battery systems
- c) Solar panel d) Nuclear reactors

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 The sun's energy can be converted into electricity through _____ modules. (CO3)

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Q.8 Solar cell is made of _____ (CO1)

Q.9 A _____ is defined as machine that converts the kinetic energy of wind into mechanical energy. (CO2)

Q.10 OTEC stand for _____

Q.11 Fuel cell converts _____ energy in to electrical energy. (CO1)

Q.12 SMES stands for _____ (CO1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What are primary and secondary energy resources? (CO1)

Q.14 Describe the working of solar furnace with neat diagram. (CO2)

Q.15 Write a short note on: (Co3)

- a) Pyrolysis b) Liquefaction

Q.16 Define Biogas and its composition? (CO4)

Q.17 Compare the mini and micro hydro power plant. (CO5)

Q.18 Classify wind power plant? (CO1)

Q.19 Write the 4 merits of wind power plant? (CO3)

Q.20 Write a short note on geothermal energy? (CO1)

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