

No. of Printed Pages : 4  
Roll No. ....

220924

**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 What are the advantages of solar power? (CO1)

- a) Sunlight is free
- b) Doesn't produce the greenhouse effect
- c) Both a and b
- d) None of these

Q.2 Which is the largest non conventional resource of energy? (CO1)

- a) Solar energy                      b) Wind energy
- c) Tidal energy                      d) Geo thermal energy

Q.3 The term biomass most often refers to \_\_\_\_\_(CO1)

- a) inorganic matter
- b) organic matter

- c) chemicals
- d) ammonium compounds

Q.4 The process of producing energy by utilizing heat trapped inside the earth surface is called \_\_\_\_\_ (CO1)

- a) Hydrothermal energy
- b) Geo-thermal energy
- c) Solar energy
- d) Wave energy

Q.5 What is tidal power? (CO3)

- a) Energy from tides    b) Energy from Water
- c) Energy from moon    d) Energy from sun

Q.6 Chemical energy is converted to \_\_\_\_\_ energy by a fuel cell. (CO2)

- a) solar                                      b) electrical
- c) potential                                      d) mechanical

**SECTION-B**

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

Q.7 The \_\_\_\_\_ effect uses solar radiation to convert solar radiation into heat energy. (CO3)

- Q.8 MHD stand for\_\_\_\_\_ (CO2)
- Q.9 Wind energy is a source of\_\_\_\_\_ energy. (CO1)
- Q.10 Regular disturbances on the surface of water are called\_\_\_\_\_ (CO1)
- Q.11 Practical efficiency of fuel cell is\_\_\_\_\_ (CO5)
- Q.12 The key drawback of super capacitor is that its \_\_\_\_\_ voltage is quit low. (CO5)

### SECTION-C

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

- Q.13 What are renewable and non renewable resources? (CO1)
- Q.14 Describe the working of solar cooker with neat diagram? (CO2)
- Q.15 Write a short note on: (CO3)
- Anaerobic Digestion
  - Fermentation
- Q.16 Define Biomass and its resources? (CO4)
- Q.17 Write the 4 advantages of micro hydro power plant? (CO5)
- Q.18 Discuss in brief the basic component of wind energy conversion system? (CO3)

- Q.19 Write the 4 Disadvantage of geothermal? (CO4)
- Q.20 Write a short note on tidal energy? (CO1)
- Q.21 Write a short note on MHD power generation system? (CO4)
- Q.22 What are various applications of fuel cell? (CO5)

### SECTION-D

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

- Q.23 Discuss the construction and working of photovoltaic cell with neat diagram? (CO3)
- Q.24 Discuss power generation by using gasifier? (CO4)
- Q.25 Explain the various types of wind turbine. (CO1)