

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 List various non conventional energy source. Give their merits, demerits and classification.
- Q.4 What is the principle of MHD generation. Mention advantages over ordinary system.
- Q.5 Explain in detail difference between WET and dry process of bio mass conversion technology.
- Q.6 Explain open cycle and closed cycle OTEC system in detail.
- Q.7 What are thermoelectric materials. State in detail applications of thermoelectric power.

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Roll No.

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5th Sem.

Subject : Non Conventional Energy Source

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) What is conventional source of energy.
- b) What is the disadvantage of renewable source of energy.
- c) What is solar cell.
- d) Name hydro power plant situated in Punjab.
- e) What is Pyrolysis.
- f) What is the function of penstock.
- g) What do you mean by manure.
- h) State two disadvantages of wind energy.
- i) What do you mean by hybrid cycle.

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- j) Name operating components of fuel cell.
- k) Name the turbine used in tidal power plant
- l) What do you mean by bio fuel.
- m) What do you mean by peltier effect.
- n) What is the function of Gassifier.
- o) Name two thermo electric materials.
- p) What do you mean by solar pumping
- q) What do you mean by secondary sources of energy.
- r) What is MHD.
- iii) State advantages of closed cycle MHD system.
- iv) Write short note on solar water heater.
- v) What are the advantages of bio gas technology.
- vi) Explain necessary conditions of photo synthesis.
- vii) What do you mean by local control of wind mill.
- viii) Write the factors affecting the suitability of site for tidal power plant.
- ix) What are the advantages and disadvantages of geothermal energy.
- x) What is the principle of fuel cell. Explain.
- xi) How the battery is maintained.
- xii) Explain seeback effect.
- xiii) State advantages of hydro electric power generation.
- xiv) What is anaerobic digestion.
- xv) Explain closed cycle MHD system in brief.

SECTION-B

Note: Short answer type questions. Attempt any ten parts
10x4=40

- Q.2
- i) What are advantages and limitations of renewable energy sources.
 - ii) State advantages of photo voltaic solar energy conversion.

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