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220145B

4th Sem / Agriculture

Subject : Solar Technology

Time : 3 Hrs. M.M. : 60

SECTION-A

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

Q.1 The single solar cell voltage is about_____.

a) 0.2 V b) 1.0 V

c) 0.5 V d) 2.0 V

Q.2 Which cell is used to converts solar energy directly into electrical energy.

a) Dry cell

b) Battery

c) Photo electrical cell

d) None of the above

Q.3 The energy which is stored as latent heat is called as _____energy.

a) Mechanical energy

b) Thermal energy

c) Electrical energy

d) None of the above

SECTION-D

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

Q.23 Write the working and principle of solar crop dryer.

Q.24 Explain construction principle of solar pond and its application

Q.25 Explain chemical and thermo chemical enregy storage system.

Q.4 The solar energy directly used for.

a) Drying
b) Water heating
c) Distillation
d) All of the above

Q.5 From the sun the solar energy is radiated in the form of_____waves.

a) Electromagnetic waves
b) Infrared waves
c) Transverse waves
d) None of the above

Q.6 The material used for making solar cells.

a) Aluminium
b) germanium
c) Silicon
d) Copper

SECTION-B

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

Q.7 The solar cell converts____energy into_____energy

Q.8 Plant converts solar energy into_____.

Q.9 Power is the rate of doing _____.

Q.10 Infrared radiations gives_____energy.

Q.11 The sun emits _____radiations

Q.12 In aircrafts _____battery are used

SECTION-C

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

Q.13 Describe Beam type solar radiation.

Q.14 Explain current voltage characteristics of PV cell.

Q.15 Write a short note on solar fencing

Q.16 Explain concentrated solar collector.

Q.17 Explain focusing solar collector

Q.18 Write advantages of concentrated solar collector.

Q.19 Write the principle of SPV module.

Q.20 Explain latent heat storage.

Q.21 Write a short note on thermal collectors

Q.22 Explain the working of electrical battery storage system.