Q.20 Explain SPV module in brief. (CO2)

Q.21 Write a short note on thermal energy storage. (CO3)

Q.22 Explain the short note photovoltanic cell. (CO1)

SECTION-D

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

Q.23 Explain in brief details of solar crop dryer. (CO4)

Q.24 Describe the working principle of solar water pumping system. (CO4)

Q.25 Explain the working destils of natural circulation type and forced circulation type solar water heater. (CO2)

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4th Sem.
Branch : Agriculture
Sub. Solar Technology

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

Q.1 Solar cell is made of; (CO1)

a) Silicon b) Germanium

c) Semi-Conductor Element

d) All are correct

Q.2 In solar power plant, The Turbine is Run by: (CO1)

a) Hotwater b) Steam

c) Sunlight d) Photovoltanic cell

Q.3 Solar Pond is used to (CO3)

a) Collect and store the solar energy

b) Reflect the Solar Energy

c) Direct Solar Energy

d) None of these

Q.4 The Sun's Rays has Higher Intensity (CO1)

a) On the Ground Surface

b) Near the Polar Region

c) Near the Equator

d) All are correct

Q.5 The Temperature Inside. The Solar cooker Ranges for (Degree Celsius); (CO2)

a) 40-80 b) 50-100

c) 100-140 d) 110-180

Q.6 A Mirror Used to reflect Sunlight in Box Type Solar Cell is (CO1)

a) Convex b) Concave

c) Plane d) All are correct

SECTION-B

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

Q.7 Light energy can be converted into electricity by _____. (CO1)

Q.8 A solar cell cell converts solar energy into _____. (CO1)

Q.9 Solar and wind energy is a example of _____ resources. (CO2)

Q.10 What are the different renewable sources of energy. (CO1)

Q.11 What are the environmental benefits of solar energy. (CO2)

Q.12 Write a short note on disadvantage of solar technology. (CO3)

SECTION-C

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

Q.13 Write a short note on working principle of photo-voltanic cell. (CO2)

Q.14 Describe working principle of solar radiation into heat. (CO1)

Q.15 Write a short note on solar spectral. (CO2)

Q.16 Explain the details of solar water pumping system. (CO4)

Q.17 Writes the working principle of thermal collector. (CO3)

Q.18 Explain the details of non-concentrated solar collector. (CO3)

Q.19 Write a short note on line focusing collectors. (CO3)