

6th Sem. / IC
Sub. : Solar panel installation & Maintenance

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Solar panel convert
- a) Light energy into mechanical energy
 - b) Electrical energy into light energy
 - c) Light energy into electrical energy
 - d) Mechanical energy into electrical energy
- Q.2 Which of the following tools is used for solar panel installment
- a) Wire cutter b) Drills
 - c) Multi meter d) All of the above
- Q.3 Which of the following components are not used in solar system.
- a) Battery b) Charger Control
 - c) Investors d) Regulator
- Q.4 Solar panel contain which of the following hazardous materials.
- a) Lead b) Silicon
 - c) Cadmium d) Both (a) and (c)

Q.5 A _____ is a device that orients a pay load towards the sun.

- a) Solar panel
- b) Solar tracker
- c) Solar inverter
- d) None of the above

Q.6 Laminator is a _____ equipment used in solar plant

- a) Electrical
- b) Chemical equipment
- c) Mechanical
- d) Hydroids

SECTION-B

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

Q.7 An inverter in solar system converter ac signal into DC signal. (True / False)

Q.8 Define solar tracking.

Q.9 Solar panel converts sunlight into _____ current (AC/DC)

Q.10 Battery is used for the power back-up in solar system. (True/False)

Q.11 Write any one mechanical equipment used in solar system.

Q.12 Write the function of electrical system in solar panel.

SECTION-C

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

Q.13 Explain the basics of solar energy and power generation system.

Q.14 What are the tools involved in installation of solar system?

Q.15 Briefly explain the placement of solar panel mounting.

Q.16 What are the company's policies on incentives for solar system?

Q.17 How hazardous tools and equipments are handled in solar plant?

Q.18 Write the importance of individual's role in the work flow in solar plant.

Q.19 Write any four hazardous material in solar plant.

Q.20 Write health and safety standards in solar plant.

Q.21 Write any four application of solar panel.

Q.22 What is angle of tilt in solar system?

SECTION-D

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

Q.23 Explain the concept of solar tracking system in detail.

Q.24 Write a note on site survey, design and evaluation of various parameters in solar system.

Q.25 Write and explain all the solar energy system components in detail.