

- Q.29 Explain the function of basic electrical system used in PV system. (CO4)
- Q.30 Enlist component used in a grid photovoltaic power generation system. (CO1)
- Q.31 How can PV array can be protected from lightning surges? (CO2)
- Q.32 Explain operating Hazardous tools used at workplace (CO3)
- Q.33 Explain different company's policies regarding incentives in solar PV installation work? (CO3)
- Q.34 Write the difference between PV array and solar PV module. (CO2)
- Q.35 Describe solar energy storage system (CO3)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the steps of installing the equipment and component in PV system. (CO1)
- Q.37 Define solar tracking system and classified in details. (CO2)
- Q.38 Write short notes on :
- Basic electrical system and functioning of PV panels. (Co1)
 - Maintenance procedure of solar panel. (CO3)

No. of Printed Pages : 4

Roll No.

180954C/170954C

5th Sem / Elect Subject:- Solar Panel Installation and Maintenance

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 On site, your colleague has battery acid in his eyes? (CO1)
- Run away so you don't get acid on you
 - Call for friends
 - Rinse his eyes with plenty of water
 - call the boss
- Q.2 Efficiency of solar energy is used for (CO1)
- 25%
 - 15%
 - 40%
 - 60%
- Q.3 Direct solar energy is used for (CO1)
- Water heating
 - Drying
 - Distillation
 - All of these
- Q.4 A combination of solar panel connected together is known as (CO2)
- Solar cells
 - solar array
 - solar connector
 - none of above
- Q.5 PV arrays work best when sun'ray strike _____ degrees to the cells (CO2)

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write name of one tool required for solar PV installation. (CO1)

Q.12 What is mean by PV module? (CO2)

Q.13 PPE stands for _____ (CO4)

- Q.14 Lead acid batteries are sources of AC. (CO4)

Q.15 Which current is produced by solar panel and name converter used to convert that current (CO2)

Q.16 What is basic component of PV system? (CO1)

Q.17 Write one safety precautions of solar site (CO4)

Q.18 Most widely used solar material is _____ (CO1)

Q.19 MPPT stands for (CO4)

Q.20 Enlist the type of solar power generation system used (CO2)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Enlist the tools which is used during site survey and installation of PV system. (CO1)

Q.22 Name the mechanical equipment used in PV installation and its function. (CO2)

Q.23 What are the advantages and disadvantages of photovoltaic solar energy conversion? (CO2)

Q.24 Write short note on delivery standards during PV installation. (CO3)

Q.25 Explain the importance of building team coordination. (CO3)

Q.26 Describe the handling procedure of solar panel. (CO4)

Q.27 Write emergency procedure during fire in PV installation area. (CO4)

Q.28 Describe occupational health and safety assessment during solar installation. (CO1)