Total Printed Pages -2

F - 1578

B. VOC. (Second Semester) EXAMINATION, May-June, 2022 Renewable energy Technology & Management

Installation and Commissioning of Solar PV Power Plant (RETM-208)

Time : Three Hours] [Maximum Marks:80

- (A) Enlist the various tools and consumable required in installation of SPV power plant?
 - (B) Discuss the various selection criteria for BOS components of SPV plants.

OR

- (A) What are various factors that affects the electricity generation by a solar PV module. 20
- 2. (A) What are the different types of installation discussed in context of Solar PV Plant 20

OR

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- (B) What are the various troubleshooting methods of PV system components. 20
- 3. (A) How SCADA plays cruicial role in SPV Plant Management? What is the main contents of SCADA inspection report?

OR

- (A) Why we use signage and warning? Explain with the help of any 5 examples of signage and warning used in solar PV Power Plant. 20
- 4. (A) Efficiency of crystalline solar cell at STC is 15%. What would be its efficiency when cell operating temperature is 60° C? Consider the standard decrease per °C rise in cell temperature from STC value for crystalline SI solar cell.
 - (B) Write down the steps involved in commissioning &System Functional Testing of SPV Plants.10

OR

(A) What are the different challeges generally faced while installing Solar PV Plant. Also draft the checklist while performing Site Survey Analysis. 20