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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc (Solar System Technology) (Sem.-3)
SOLAR ENERGY STORAGE AND MANAGEMENT

Subject Code : SST-304

M.Code : 93236

Date of Examination : 15-12-2023

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE marks each.
2. SECTION-B contains FIVE questions carrying TWO AND HALF marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) What is the requirement of storage in solar energy system?
- b) Indicate the stages in battery management.
- c) What is the basic principle for solar energy storage?
- d) Give an example of electrochemical energy storage used for renewable sources.
- e) List two mechanical storage methods.
- f) List two differences between two tank direct system and two tank indirect system.
- g) What do you mean by renewable source?
- h) Why is maintenance of batteries required?
- i) What are the safety measures to be considered while working with energy storage systems?
- j) Discuss the application of compressed-air storage in industries.

SECTION-B

2. Discuss the application of Lithium-Ion Batteries.
3. How does a solar pond work?
4. Differentiate between grid tied and off-grid type solar energy storage system.
5. List the advantages of grids.
6. What are the specifications to be considered while selecting a battery for a solar energy storage system?

SECTION-C

7. List the different types of batteries. Explain the working of any one type.
8. Discuss flywheel storage with suitable diagram.
9. Write a short note on Thermal Storage.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.