23105910

QP CODE: 23105910

Reg No : .....

Name : .....

B.VOC DEGREE REGULAR EXAMINATIONS, MARCH 2023

Sixth Semester

B.Voc Renewable Energy Technology and Management

CORE - RETTG603 - GRID INTEGRATION

2020 Admission Only

A1409CD9

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is a PT?
2. What is synchronization of generators?
3. What is IEC 61215?
4. List out any two types of earthing.
5. What is harmonics?
6. List out any four personal protective equipment.
7. What is the purpose of personal protective equipments?
8. List any two safety measures adopted in solar PV worksites?
9. What are the different types of hybrid systems?
10. List out any four examples for type 1 Biomass.
11. What is type 2 biomass?
12. What is a micro hydel hybrid system?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain generating system.
14. What is the function of an Isolator in a substation? Explain.
15. Write a short note on PV modules.
16. Write down the national standards for PV inverters.
17. Explain Gross metering.
18. Write a short note on string inverters.
19. What are hybrid systems? List out the needs for hybrid systems.
20. Briefly explain Solar-cum-Biomass dryer Hybrid.
21. What are the limitations of E-Vehicles?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the classification of substation.
23. With the help of a SLD explain about solar rooftop power plants.
24. Write a note on safety practices in a PV worksite.
25. Explain in detail microgrid and smart grid.

(2×15=30)