23105909

QP CODE: 23105909

Reg No : .....

Name : .....

B.VOC DEGREE REGULAR EXAMINATIONS, MARCH 2023

Sixth Semester

B.Voc Renewable Energy Technology and Management

CORE - RETTG602 - ENERGY MANAGEMENT AND AUDITING

2020 Admission Only

B9DA3BD8

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Choose the correct examples for each:

Secondary energy	Firewood
Commercial energy	Sun
Conventional energy	Petrol
Renewable Energy	Biomass
	Hydrogen
	Steam
	Electricity

2. Which are the classifications of energy strategy?
3. Differentiate AC and DC.
4. What was the aim behind bringing up of energy policy and reforms related to Coal by the Government?
5. Which are the major phases in energy audit?
6. Define PEP.
7. Define Energy benchmarking for industries.

8. Which are the various components of planning?

9. What is EAC?

10. What is leading?

11. Write the difference between absolute pressure and guage pressure.

12. How does doppler ultrasonic flow meters compute flow rate?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. What are the differences between conventional and non-conventional sources of energy.

14. Write down first and second law of thermodynamics.

15. Write down all the principles of energy management.

16. What is meant by matching energy usage to requirement?

17. To achieve the aims and objectives of the energy policy, there should be clear and formalized responsibilities, plans and procedures in place. Which are those?

18. With a flow chart prepare a note on location of energy manager.

19. Evaluate the role of an Energy manager in an organization.

20. Prepare a short note on voltmeters.

21. Match the following correctly.

A	B
Low pressure	Diphragm gauge.
Very high pressures	Manometer
Low vacuum and ultra-high vacuum	Bellows Gauges
High and medium pressure	Mcleod vacuum gauge

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the need of renewable energy sources and obstacles to its implementation in detail.

23. Explain the energy Audit Reporting format.

24. Describe the role of Marketing & Communication in executing energy awareness.

25. Which are the instruments used for flow Measurement of steam, water and air? Explain their working with diagrams.

(2×15=30)