22101652

QP CODE: 22101652

Reg No : .....

Name : .....

B.VOC DEGREE EXAMINATIONS, APRIL 2022

Sixth Semester

B.Voc Renewable Energy Technology and Management

RETTG602 - ENERGY MANAGEMENT AND AUDITING

2019 Admission Only

BC191A64

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. Define energy.
2. Define fossil fuel energy with an example.
3. Define power factor.
4. Define fuel density.
5. Write any 2 uses of energy invoices.
6. List any 4 benchmark parameters related to gross production.
7. What is fuel and energy substitution?
8. List out the steps in energy action planning.
9. List any two responsibility of energy manager.
10. List any two ways to motivate staff and employees in an organization.
11. What are leak dectectors?
12. How ammeters and voltmeters are connected in electrical circuits?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Comment your thoughts on energy security of India. List a few points to become an energy secured country.
14. Differentiate kinetic energy and potential energy with example.
15. Discuss in detail on energy management strategy.
16. Prepare a short note on fuel and energy substitution with example.
17. List the objectives of management.
18. With the help of a flow chart explain Steps in energy action planning.
19. In addition to implementing the technical aspects of the action plan, what are the factors to be considered for implenting energy action planning?
20. Draw a circuit diagram to depict the connection of voltmeter and ammeter in an electrical system and explain.
21. Write the difference between contact and non-contact type temperature measurements with example.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Brief on Energy Policies, pricing & reforms in India.
23. Explain the ten steps methodology for detailed energy audit. .
24. Discuss in detail on a) Information system and its barriers. b) Motivation of employees
25. What is the principal behind measurements by chemical methods? Explain i) Flue gas analyser ii) Combustion analyser iii)Fuel efficiency monitor

(2×15=30)