QP CODE: 21102686

21102686

Reg No : .....

Name : .....

B.VOC DEGREE EXAMINATIONS, OCTOBER 2021

Fourth Semester

B.Voc Renewable Energy Technology and Management

RETTG402 - WASTE TO ENERGY CONVERSION

2019 Admission Onwards

ADAD7B0C

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. How can you classify the MSW?
2. What do you mean by waste processing?
3. List out the various stages in the waste hierarchy.
4. Write down any two requirements for a landfill.
5. Explain the effect of temperature in landfill gas production.
6. Are there any beneficial uses for collected landfill gas.
7. What is the waste that can be turned into energy?
8. Describe the co - gasification process of biomass.
9. What are the various characteristics of anaerobic digestion?
10. List out the various environmental impacts of incineration.
11. What is calorific value?
12. List out the various advantages of incinerators.

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Write a note on radioactive waste.
14. What are the various requirements for storage of waste?

15. Explain the various reasons for low recovery rates of MRF.

16. How improved aeration techniques affect the process of aerobic composting.

17. Explain excavated cell method of landfilling.

18. Explain the significance of briquetting presses.

19. What is the ash generated by combustion and what happens to it?

20. Explain the working of microbial fuel cells.

21. Explain the basic parameters for creating a modern waste management system.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the best practices for waste management.

23. Explain the municipal solid waste management scenario in India.

24. Explain the process of landfill gas generation.

25. Explain the different ways of waste to energy conversion.

(2×15=30)