

QP CODE: 21100405



Reg No :

Name :

B.Voc Degree Examination, FEBRUARY 2021

Second Semester

B.Voc Food Technology and Analysis

BOVG201 - BASIC ORGANIC CHEMISTRY

2018 Admission Onwards

F219F9C5

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

Each question carries 2 marks.

1. Describe the reason for restriction of rotation about C=C bond.
2. Explain why acetic acid is more acidic than propionic acid.
3. Explain homolytic bond fission.
4. Define free radicals and explain its stability.
5. Differentiate between electrophiles and nucleophiles.
6. Explain briefly major types of organic reactions.
7. State Hofmann's rule with one example.
8. Give four uses of Low density polyethylene.
9. State Huckel's rule of aromaticity.
10. Give the definition of air pollution.
11. Discuss the adsorption method used to control gaseous pollutants.
12. Give any four effects of noise pollution.

(10×2=20)

Part B

*Answer any **six** questions.*

Each question carries 5 marks.

13. Write a short note on diastereomers including their properties.
14. Explain the conformations of Ethane with energy diagram.





15. Explain the mechanism of addition of HBr to propene in the absence of organic peroxide.
16. Explain the term polymers? Explain organic and inorganic polymers.
17. Write a note on biodegradable polymers.
18. Briefly describe the synthesis of 1) 2-Bromofuran 2) 2-Acetylfuran
19. Write a note on Greenhouse effect.
20. Write a note on the effects of pesticides on water pollution.
21. Give a short note on measures taken against water pollution.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain the structures and types of hybridisation in ethane, ethene and ethyne.
23. Discuss the mechanism of the following reactions of benzene 1) Nitration 2) Sulphonation
3) Halogenation.
24. Write an essay on causes of water pollution.
25. Write an essay on Soil pollution.

(2×15=30)

