



QP CODE: 25021656



25021656

Reg No :

Name :

B.VOC DEGREE REGULAR/REAPPEARANCE EXAMINATIONS, MARCH 2025

Sixth Semester

B.Voc Food Processing Technology

FPRT6S1T - ANALYTICAL METHODS IN FOOD PROCESSING

2018 Admission Onwards

E1F705A4

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is chromatography?
2. Write any two advantages of gas chromatography.
3. Write any two uses of infrared spectroscopy.
4. What is emission spectroscopy?
5. Write any four parts in NMR spectroscopy.
6. Write any two examples for radioactive elements.
7. What is curie?
8. What is free electrophoresis?
9. What is gel electrophoresis?
10. Write any two advantages of PAGE.
11. Write about SI unit of enzyme activity.
12. What do you mean by active site?

(10×2=20)

Part B

*Answer any **six** questions.*

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

13. Describe about advantages and limitations in paper chromatography.





14. Write any 4 parts of HPLC system and its functions.
15. What is spectrometer? Write its importance.
16. Define the term UV spectroscopy. And write its properties.
17. Briefly discuss about principle of fluorescence spectroscopy.
18. Define the term radiotracer and write its application.
19. Briefly discuss the structure of scintillation counter.
20. Briefly discuss about free electrophoresis its classification and its properties.
21. Write about catalytic effects in chemical reaction.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. What is chromatography? Explain about TLC. And write the principle of TLC.
23. What is atomic absorption spectroscopy? Write down the steps and uses also.
24. Describe about principle, procedure and application of paper electrophoresis.
25. Explain about reaction mixture and classification of enzymes in detail.

(2×15=30)

