



## 13MARKS AND 14 MARKS QUESTIONS



1. Write about the application of measurement system
2. Explain in detail about a) Indicating function b) Recording function c) Controlling function
3. What are the spectroscopic techniques in IR and UV?
4. Explain in a detailed note on hot wire anemometer
5. Differentiate between variable air gap type and variable permittivity type.
6. Explain briefly on measurement system.
7. Explain briefly on Atomic absorption
8. Explain in detail on a) Electromagnetic sensor b) piezo electric sensors c) Inductive transducers
9. Write about the spectroscopic techniques in IR
10. Explain in a detailed note on calibration and standardisation of instruments.
11. Write about the spectroscopic techniques using NIR and FTIR
12. Discuss about the measurement systems.
13. Explain in detail about HPLC and its application in food industry
14. Briefly explain supercritical fluid extraction with a neat sketch
15. Discuss in detail about color measurements in raw and processed foods
16. Explain in a detail about membrane separation techniques
17. Describe about the working principle of ultrafiltration and ultracentrifugation
18. Explain in detail about XRD microscopic techniques
19. Describe the working principle of GC and draw a neat sketch
20. Discuss in detail about the dialysis and electrophoresis process
21. Explain in detail about some microscopic techniques in food analysis
22. Briefly explain the manometric techniques and their applications
23. Describe about the working principle of GCMS and LCM
24. Briefly explain about the polarimetry and refractometry techniques
25. Identify and explain about the automation in food processing nowadays

26. Explain about the enzymatic methods of food analysis? And Briefly explain the differential scanning calorimetry
27. Classify in detail about the types of thermal methods in food analysis
28. Explain in a detail about the food component analysis using NIR and FTNIR
29. Describe about the principle of measurement and recent application of radiation thermometers
30. Discuss in detail about different types of immunoassay techniques