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(Sem-1) SEC

2024

CHEMISTRY

Paper Code : SEC0101003

(Basic Analytical Chemistry)

Full Marks : 30

Time : $1\frac{1}{2}$ hours

***The figures in the margin indicate
full marks for the questions.***

- i. Write the nutritious values of (any three) : 1x3=3
- (a) Apple
 - (b) Broccoli
 - (c) Garlic
 - (d) Sweet Potato
 - (e) Egg Yolk
2. What do you mean by food processing ? What are the factors causing spoilage of food? 1+2=3
3. What do you mean by food adulteration ? How can you detect the adulterants in the following (any two) 1+3=4
- (a) Chilli Powder
 - (b) Turmeric Powder
 - (c) Sugar

Contd.

4. Define chromatography. 1

5. Commonly used adsorbent in column chromatography is ____ 1

6. Write the mechanism of column chromatography. 3

OR

Write the mechanism of paper chromatography.

7. What do you mean by chromatogram ? 2

8. What is R_f value ? How is it helpful in paper chromatography?

1+2=3

OR

What is silica gel ? Write its uses.

9. Define the term accuracy and precision. Good precision does not assume good accuracy. Give reasons. 2+2=4

10. How is absolute error related to relative error. 2

11. What are the unsystemic errors ? 2

12. From the given set of weights 25.1 mg, 25.2 mg, 24.9 mg and 24.8 mg, calculate the average deviation and the standard deviation of the individual values. 2
