Register No:

Date:

ST. JOSEPH'S COLLEGE (AUTONOMOUS) BANGALORE-27 **UG-IV SEMESTER (OPEN ELECTIVE) SEMESTER EXAMINATION- APRIL 2020 CHOE 4316: CHEMISTRY OF FOOD PRODUCTION, HEALTH AND NUTRITION**

Time: 1 ½ hrs

Max Marks:35

This question paper contains 1 printed page and 3 parts

PART-A

Answer any **TEN** of the following questions

- 1. Name any two major minerals in the human body.
- 2. What are non-mineral plant nutrients?
- 3. List any two water insoluble vitamins.
- 4. Give an example of (a) Sequestrant (b) Flavour enhancer.
- 5. What is the role of baking powder?
- 6. What are adulterants?
- 7. Give an example of a thickener.
- 8. Give the full form of BMR.
- 9. Name an adulterant used in milk.
- 10. Deficiency of which vitamin causes scurvy?
- 11. Give the chemical composition of soil.
- 12. Give an example of an adulterant in (a) Spices (b) Sugar.

PART-B

Answer any **FIVE** of the following questions

- 13. What is calorific value? Explain the calculation of calorific value of food.
- 14. Explain selective and non-selective herbicides with an example each.
- 15. What is the chemical process involved in fermentation of milk to vogurt?
- 16. What is malnutrition? Give any one cause of malnutrition.
- 17. How do you detect the presence of artificial colouring in tea leaves?
- 18. Give one source and deficiency effect of Vitamin A.
- 19. What are emulsifiers? Give an example.

PART-C

Answer any **THREE** of the following questions

- 20. What is nitrogen fixation? Explain in detail the two ways in which nitrogen is absorbed and assimilated by plants.
- 21. What are the criteria for assessment of daily dietary requirements? Suggest the appropriate composition of a balanced diet.
- 22. Name any four distinct categories of food additives and specify their function.
- 23. Explain the function and daily needs of carbohydrates. Mention any four sources.
- 24. Discuss the advantages and disadvantages of the following fertilizers (a) Ammonium sulphate (b) Calcium ammonium nitrate?

CHOE4316_A_20

3x5 = 15

5x2=10

10x1 = 10