REG NO:

DATE:23-11-2020

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27
M.Sc. FOOD SCIENCE AND TECHNOLOGY - III SEMESTER
SEMESTER EXAMINATION: NOVEMBER 2020
FST 3419- FOOD QUALITY, SAFETY MANAGEMENT AND STATISTICS

Time- 2 1/2 hrs **Max Marks-70**

This paper contains 02 printed pages and 04 parts

I. Answer any FIVE of the following 3 x 5=15

1. What are the objectives of food quality control?
2. Write down the quality parameters identified by International Pulse Quality Parameters (IPQC)for Pulses.
3. Write the reason of doing inhibitory quality test in milk at receiving dock?
4. Write briefly about food traceability.
5. Writes a short note on SPS agreement.
6. Write brief notes on Primary data and its various sources?
7. Explain merits and demerits of non-probability sampling with examples.

II. Answer any FIVE of the following 5x5=25

8. Explain the major sources of food borne illness.
9. Write down various instrumental methods used for determination of vegetable quality
10. Write a brief note on HACCP principles
11. Briefly discuss the Total Quality Management.
12. What are the general principles of Codex Alimentarious?
13. Differentiate between probability and non-probability sampling methods.
14. a) The following numbers represent the ages of people on a bus:

    3, 6, 27, 13, 6, 8, 12, 20, 5, 10. Calculate the mean of their ages.

    b) The following represents age distribution of students in an elementary class.

    Find the mode of the values: 7, 9, 10, 13, 11, 7, 9, 19, 12, 11, 9, 7, 9, 10, 11.

    c) . Find the median of the set of numbers:

    100, 200, 450, 29, 1029, 300 and 2001

    d) Find the mode from these test results:

90, 80, 77, 86, 90, 91, 77, 66, 69, 65, 43, 65, 75, 43, 90.

e) Find the median of the set of numbers: 21, 3, 7, 17, 19, 31, 46, 20 and 43.

III. Answer any TWO of the following 10 x 2=20

15. Discuss Good hygienic practices in details.

16. The height of the players (in cm) from a basketball team are represented by the following table

Height	(170, 175)	(175, 180)	(180, 185)	(185, 190)	(190, 195)	(195, 200)
No. of players	1	3	4	8	5	2

a) Calculate the standard deviation

b) How many players are above the mean plus one standard deviation?

17.Write down a detailed note on FSAAI regulations given for Fat and Oil products.

IV. Answer the following 10x 1=10

18.a) What is Correlation? Define various Correlation with plotted graphs.

b) In the following table details of 6 people having different age and weight are given. Calculate the value of the Pearson correlation coefficient r.

Serial No.	Age (x)	Weight (Y)
1	40	78
2	21	70
3	25	60
4	31	55
5	38	80
6	47	66