Class: 2019-20 Division: Semester: Batch No: **Date of Practicals taken** 2 5 5 t. 50 40 5 rtth. t T Roll Group/ Name of the Student 26 24 No. en m 5 ম Subject 10 11 12 8 9 5 6 4 1 3 KEJUI M. ATOOHANA T.Y.BS Pro And And And And And And And And And Anima minute anima ani 2 ANIMESH N. CHAUSHAR U 3 Anjuli A. churchum 11 Amyje R. churdhumi 11 S AS mitch A. Charleburg 11 6 Humma M. churchurgh 11 7 KUUShik D. Churkhum 8 Khushboo S. churdhusi !! Kond A Kove the two the A Kone Kone gime gime Konpa M. chaudhan !! 9 \mathcal{O} Mayur S. churdham 10 11 11 11 Meghana A. Charldhop 12 Minuri D. churdhom 13 Mishruta A. churcher 11 14 PRAGATT C. Churchum 11 A Phin Press 15 Poutikshy D. Churchdon 11 An Briten Briten Briten Briten Briten Briten Poryumka N. Chaudhan !! 16 ey die wede N Charles IN Charles NOW NOW NOW endre endre ind 17 Pajyunka V. Churchdan 11 How Saw She was she was and the set of the s 18 Smehu K chaudhun 19 Smehajali J. Churchdan !! 20 Tompika B. churchum 11 2) Tushur k. churdhun 22 Knutika A. Churdhom 11 23 Abhishek V. Dobasita /1 24 Nisha J Gumit H 25 Sanjana A. Gumit 11 26 Sonal D. Gumit 11 Telusvini A.Gumi 4 27 28 Shivani S. Granch 11 29 Digv Haysing N.Kessona T.F Antart A Britant Art Brit A Brit Brit Ast A 30 Priti M. Kher 11 horten (Ino Geor Gland Clar (Jeon George George George George) Tumy 12. Kher 11 31 And and a set of the s 37 APPORCE H. KOSUda 11 33 Bhumika H. Kosuda 1 34 Punushi D. Muhida 11 11 35 Nilum N. Mungrold 36 11 Shivani V. Mangoola 37 Zeel M. Mare 11 38 Bhakti M, Putel 11 39 Bhoomika H. Patel A plating and proposed adde 19 11 40 DINKAL N. PATEL Aim or Details of the Practical / Exercise perfomed on the said date

Sign. of Teacher/Lab In-charge

VANKAL TA. MANGROL DIST. SURAT

Roll Call Register for the Practicals of the 1st / 2nd Term Month____

Year_

Date of Practicals taken

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VANKAL TA. MANGROL DIST. SURAT

Roll Call Register for the Practicals of the 1st / 2nd Term Month

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Year

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84	Maya G. parmar	16-1-C1.8.R-	emg	emg	pm	A	pm	pmg	pmg		pmg	phil	PHI-	Patot
85	Bhumika R. patel			B.K	A	Pater	18th	Patel		inter .		BIR	16.A	B.F.
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Roll Call Register for the Practicals of the 1st / 2nd Term Month_

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Date of Practicals taken

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Roll Call Register for the Lectures of the 1st / 2nd Term Month

Year

Date of Lectures taken



Government Science College, Vankal

Short term Course: Biochemical and Microbiological analysis of milk Course Code: STCMB03 Duration: 30 hours (1 hours per lecture) Time Table

Day	Module	Торіс	Hours
1	Module 1: Introduction to Milk Composition and Properties	Composition of milk (proteins, fats, carbohydrates, vitamins, minerals)	1
2	Module 1: Introduction to Milk Composition and Properties	Physical properties of milk (density, viscosity, pH)	1
3	Module 1: Introduction to Milk Composition and Properties	Factors affecting milk composition and quality	1
4	Module 2: Chemical Analysis of Milk	Determination of fat content (Gerber method, Babcock method)	1
5	Module 2: Chemical Analysis of Milk	Measurement of protein content (Kjeldahl method)	1
6	Module 2: Chemical Analysis of Milk	Detection of adulterants and contaminants	1
7	Module 3: Microbiological Analysis of Milk	Introduction to milk microbiology	1
8	Module 3: Microbiological Analysis of Milk	Common microbial contaminants in milk	1
9	Module 3: Microbiological Analysis of Milk	Standard plate count (SPC) method	1
10	Module 3: Microbiological Analysis of Milk	Coliform count and E. coli testing	1
11	Module 4: Milk Quality and Safety Standards	National and international milk quality standards (e.g., FDA, EU regulations)	1
12	Module 4: Milk Quality and Safety Standards	Good manufacturing practices (GMP) in dairy production	1
13	Module 4: Milk Quality and Safety Standards	Hazard Analysis Critical Control Point (HACCP) system in dairy industry	1
14	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis techniques	1
15	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis techniques	1
16	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis techniques	1
17	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis	1

Day	Module	Торіс	Hours
		techniques	
18	Module 5: Practical Sessions	Practical exercises in microbiological testing methods	1
19	Module 5: Practical Sessions	Practical exercises in microbiological testing methods	1
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28	Module 5: Practical Sessions	Practical exercises in microbiological testing methods	1
29	Module 5: Practical Sessions	Practical exercises in microbiological testing methods	1
30	Module 5: Practical Sessions	Review and Q&A on practical sessions	1

Government Science College, Vankal

Short term Course: Biochemical and Microbiological analysis of milk Course Code: STCMB03 Duration: 30 hours (1 hours per lecture) Syllabus covered

Day	Module	Торіс	Hours
1	Module 1: Introduction to Milk Composition and Properties	Composition of milk (proteins, fats, carbohydrates, vitamins, minerals)	1
2	Module 1: Introduction to Milk Composition and Properties	Physical properties of milk (density, viscosity, pH)	1
3	Module 1: Introduction to Milk Composition and Properties	Factors affecting milk composition and quality	1
4	Module 2: Chemical Analysis of Milk	Determination of fat content (Gerber method, Babcock method)	1
5	Module 2: Chemical Analysis of Milk	Measurement of protein content (Kjeldahl method)	1
6	Module 2: Chemical Analysis of Milk	Detection of adulterants and contaminants	1
7	Module 3: Microbiological Analysis of Milk	Introduction to milk microbiology	1
8	Module 3: Microbiological Analysis of Milk	Common microbial contaminants in milk	1
9	Module 3: Microbiological Analysis of Milk	Standard plate count (SPC) method	1
10	Module 3: Microbiological Analysis of Milk	Coliform count and E. coli testing	1
11	Module 4: Milk Quality and Safety Standards	National and international milk quality standards (e.g., FDA, EU regulations)	1
12	Module 4: Milk Quality and Safety Standards	Good manufacturing practices (GMP) in dairy production	1
13	Module 4: Milk Quality and Safety Standards	Hazard Analysis Critical Control Point (HACCP) system in dairy industry	1
14	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis techniques	1
15	Module 5: Practical Sessions	Hands-on lab sessions for chemical analysis techniques	1
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Day	Module	Торіс	Hours
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29	Module 5: Practical Sessions	Practical exercises in microbiological testing methods	1
30	Module 5: Practical Sessions	Review and Q&A on practical sessions	1



Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Priti M. Kher</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB03: Biochemical & Microbiological Analysis of Milk</u> offered by Department of Microbiology from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

Hunnarkur

Course Coordinator

HJunnarkur

Head of the Department



Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Zeel M. More</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB03: Biochemical & Microbiological Analysis of Milk</u> offered by Department of Microbiology from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

HJunnarkur

Course Coordinator

HJunnarkur

Head of the Department



Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Dipal J. Chaudhari</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB03: Biochemical & Microbiological Analysis of Milk</u> offered by Department of Microbiology from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

HJunnarkur

Course Coordinator

HJunnarkur

Head of the Department



Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Chauhan Mehul R.</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB03: Biochemical & Microbiological Analysis of Milk</u> offered by Department of Microbiology from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

HJunnarkur

Course Coordinator

HJunnarkur

Head of the Department



Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Asmita R. Chaudhari</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCMB03: Biochemical & Microbiological Analysis of Milk</u> offered by Department of Microbiology from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

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Principal

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Course Coordinator

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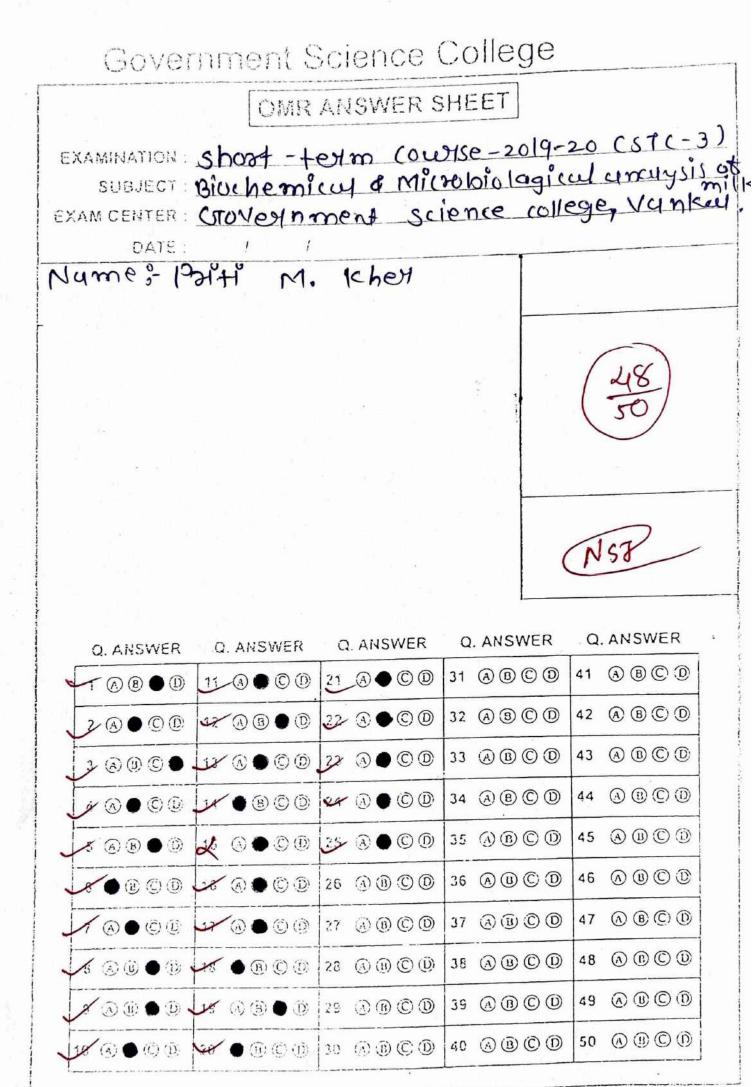
Head of the Department

Government Science College, Vankal Department of Microbiology Short term course (2019-20) Course Name: Biochemical & Microbiological Analysis of milk

Roll No: Date:27/08/2019 1. Which enzyme is commonly measured in milk to assess pasteurization efficiency? A) Lactase B) Lipase C) Alkaline phosphatase D) Amylase 2. What is the primary purpose of the Methylene Blue Reduction Test in milk analysis? A) To detect the presence of coliforms B) To measure the microbial load C) To determine the fat content D) To test for antibiotic residues 3. Which of the following is a common method to determine the fat content of milk? A) Kjeldahl method B) Gerber method C) Babcock method D) Both B and C 4. What does the presence of high levels of somatic cells in milk indicate? A) High fat content B) Potential mastitis in dairy cattle C) High bacterial contamination D) Low protein content 5. Which test is used to measure the protein content of milk? A) Fatty acid profile B) Lactometer test C) Kjeldahl test D) Alcohol test 6. In microbiological analysis, which organism is commonly used as an indicator of milk spoilage? A) Streptococcus lactis B) Escherichia coli C) Lactobacillus acidophilus D) Bacillus cereus 7. What is the purpose of the Standard Plate Count (SPC) in milk analysis? A) To determine fat content B) To measure the number of viable bacteria C) To detect antibiotic residues D) To assess the protein content 8. Which of the following tests is used to detect the presence of antibiotics in milk? A) Lactometer test B) Milk ring test C) Delvotest D) Fat test 9. The primary objective of the Lactometer test is to measure: A) Fat content B) Protein content C) Specific gravity of milk D) Bacterial contamination 10. Which test is commonly used to measure the acidity of milk? A) Lactometer test B) pH meter test C) Gerber test D) Alcohol test 11. What is the main purpose of pasteurization in milk processing? A) To increase milk's nutritional value B) To extend shelf life by killing harmful microorganisms D) To reduce fat content C) To enhance flavor 12. Which bacteria is used in the production of yogurt? A) Lactobacillus bulgaricus B) Escherichia coli C) Streptococcus thermophilus D) Bacillus subtilis 13. In the context of milk quality, what does the term "raw milk" refer to? A) Milk that has been pasteurized B) Milk that has not been processed or heated

C) Milk with added preservatives D) Milk with a high fat content

14. Which test determines the presence of milk proteins in milk?
A) Casein test B) Lactose test C) Fat test D) Alcohol test
15. Which of the following is a common method for determining the total solids in milk?
A) Refractometer B) Lactometer C) Kjeldahl method D) Babcock method
16. What does the term "total bacterial count" refer to in milk microbiological analysis?
A) The number of pathogenic bacteria only B) The number of all bacteria present in the milk
C) The number of yeast and molds in the milk D) The number of bacteria added during fermentation
17. What is the purpose of the alcohol test in milk analysis?
A) To determine fat content B) To check the stability of milk proteins
C) To detect the presence of antibiotics D) To measure lactose levels
18. Which bacteria are typically used to inoculate milk for cheese production?
A) Lactobacillus and Streptococcus B) Escherichia coli and Salmonella
C) Bacillus and Clostridium D) Pseudomonas and Listeria
Answer: A) Lactobacillus and Streptococcus
19. What is a common sign of spoiled milk in sensory analysis?
A) Sweet taste B) Clear appearance C) Sour smell D) High fat content
20. Which of the following tests is used to check for the presence of added water in milk?
A) Lactometer test B) Casein test C) Alcohol test D) Gerber test
21. The presence of which microorganism is a key indicator of milk safety?
A) Lactobacillus acidophilus B) Escherichia coli
C) Streptococcus thermophilus D) Lactococcus lactis
22. Which method is used to measure the moisture content in cheese?
A) Refractometry B) Oven drying method C) Kjeldahl method D) Milk ring test
23. What is the purpose of the Babcock test?
A) To determine protein content B) To measure fat content
C) To assess bacterial contamination D) To check for antibiotic residues
24. Which of the following tests is used to measure lactose content in milk?
A) Lactometer test B) Enzymatic assay C) Alcohol test D) Casein test
25. Which microorganism is used to produce buttermilk?
A) Lactobacillus bulgaricus B) Lactococcus lactis C) Bacillus subtilis D) Streptococcus salivarius



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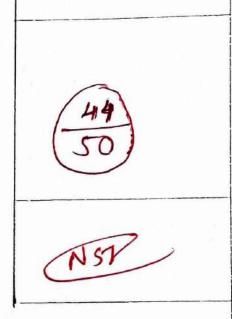
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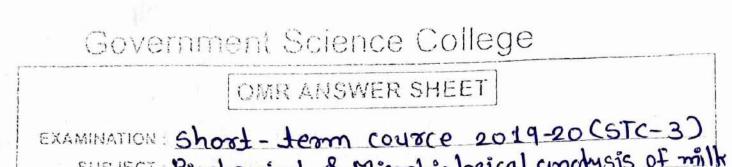
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