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Register No.:	 Name:	

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

THIRD SEMESTER B.TECH DEGREE EXAMINATION (S), FEBRUARY 2023 FOOD TECHNOLOGY (2020 SCHEME)

Course Code: 20FTT203

Course Name: Food Microbiology

Max. Marks: 100 Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

- 1. Compare and contrast the principles and applications of bright field and dark field microscopes.
- 2. Differentiate cryopreservation and lyophilization techniques for maintenance of pure cultures.
- 3. Comment on the mycotoxins as agents of food poisoning.
- 4. Explain food intoxication with suitable example.
- 5. Briefly outline any one chemical method employed for enumeration of microorganisms in food.
- 6. What are biosensors? Outline the working and applications.
- 7. Briefly summarize the major health hazards associated with food.
- 8. What are the consequences of Good Manufacturing Practices violations?
- 9. Explain alcoholic fermentation.
- 10. Define the term probiotics and explain the applications.

PART B

(Answer one full question from each module, each question carries 14 marks)

MODULE I

- 11. a) Illustrate any three methods for isolation of pure cultures (7)
 - b) Briefly explain the phases of growth curve detailing the characteristics of each phase. (7)

OR

- 12. a) Explain the principle, working and applications of various types of Electron Microscopes. (7)
 - b) Briefly outline the factors affecting the spoilage of food. (7)

MODULE II

13. a) Explain Botulism – causative agent, types and preventive measures (7)

- 19. a) Discuss any 2 fermented vegetables and their benefits. (7)
 - b) Briefly outline the role of any 3 microbial enzymes in food industry.

(7)

OR

- 20. a) Give a detailed account of vinegar fermentation. (8)
 - b) Briefly explain any 3 cereal based fermented foods. (6)
