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SIXTH SEMESTER (CUCBCSS—UG) DEGREE [SPECIAL] EXAMINATION MARCH 2021

Food Technology

FTL 6B 18—TECHNOLOGY OF FRUITS, VEGETABLES, SPICES AND PLANTATION CROPS

(2017 Admissions)

Time: Three Hours Maximum: 80 Marks

Section A

Answer all questions.
Each question carries 1 mark.

- 1. Theanine is a protein found in tea. True or false.
- 2. Ginger contains starch in significant amounts. True or false.
- 3. Simple sugars lower the water activity of water. True or false.
- 4. Pectin is found in jackfruit. True or false.
- 5. Sublimation occurs during freeze-drying process. True or false.
- 6 Capsaicin is found in ———.
- 7. Pin heads are a grade of black pepper. True or false.
- 8 Spice can be irradiated. True or false.
- 9. Lemons and limes are non-climacteric. True or false.
- 10. Fannings are also called ————.

 $(10 \times 1 = 10 \text{ marks})$

Section B

Answer at least **four** questions. Each question carries 2 marks. All questions can be attended. Overall Ceiling 8.

- 11. Differentiate jam and marmalade.
- 12. Briefly explain the curing of cardamoms.
- 13. Explain, how enzymes are deactivated during heat treatment?
- 14. List out the changes in coffee beans during roasting.
- 15. Pectinases are not suitable for retting. Comment and justify your answer.

Turn over

- 16. Define CTC process.
- 17. Write down the general composition of white chocolate.

 $(4 \times 2 = 8 \text{ marks})$

Section C

Answer at least **four** questions.

Each question carries 8 marks.

All questions can be attended.

Overall Ceiling 32.

- 18. Briefly explain the role of enzymes on the quality attributes in fruits and vegetables
- 19. Draw the flow diagram for the production of tomato puree.
- 20. Draw the flow steps involved in the production of curcumin powder.
- 21. Differentiate between climacteric and non-climacteric ripening with examples.
- 22. Briefly explain the pickling process highlighting the physic-chemical and microbial aspects.
- 23. Briefly explain the oleoresin preparation from fresh ginger.
- 24. Explain the role of pectin in the production of fruit jam.
- 25. Draw a flow diagram for the production of instant coffee powder from freshly harvested coffee beans.

 $(4 \times 8 = 32 \text{ marks})$

Section D

Answer any two questions. Each question carries 15 marks.

- 26. Describe the processing steps in the production of ready to drink mango drink from mango fruits with a flow diagram.
- 27. Discuss various fermentation methods involved in cocoa bean processing. Briefly discuss the changes that occur during the fermentation process in cocoa beans.
- 28. What is retting process? Explain various methods involved in the preparation of white pepper in detail.
- 29. What is canning? Mention its advantages. Explain the processing steps involved in the canning of pineapples.

 $(2 \times 15 = 30 \text{ marks})$