

CARMEL COLLEGE OF ARTS, SCIENCE AND COMMERCE, NUVEM – GOA

POST GRADUATE DEGREE STUDIES (AFFILIATED TO GOA UNIVERSITY)

M.Sc. (II) Food Technology (Semester III) Examination, February 2022

FT0 111 BEVERAGE TECHNOLOGY

Max. Marks: 45 marks

Duration: 2 hours

Date: 16 February 2022

INSTRUCTIONS:

1. **Section I** is compulsory.
2. Answer **any 3** questions from **Section II**.
3. Figures on the right indicate maximum marks assigned to the question.

SECTION I

Q1. A. Explain the importance of the following in the Beverage Industry, providing examples of each:

(2 x 2 mark = 4 marks)

- a. Bulking Agents
- b. Acidulants

Q1. B. Elaborate upon the commercial manufacture of any 1 of the following:

(1 x 5 marks = 5 marks)

- a. Wine
- b. Cider

Q1. C. Discuss any 2 of the following:

(2 x 3 marks = 6 marks)

- a. Production of Toddy
- b. Liqueurs and Aperitifs

SECTION II

Q2. A. Explain the differences between each set of the following beverages: (2 x 4 marks = 8 marks)

- a. Urrak and Feni
- b. Brandy and Cognac

B. What do you understand by the terms “Alcohol Proof” and “Alcohol by Volume”? (2 marks)

Q3. Elaborate upon either 1 of the following: (10 marks)

- a. Fruit- and Vegetable-based beverages
- b. Carbonated Beverages

Q4. A. Explain the importance of the following with respect to the manufacture of *sake*: (2 x 1 mark = 2 marks)

- a. *Shubo*
- b. *Moromi*

B. Differentiate between the following, stating their importance in the beverage industry:

(4 x 2 mark = 8 marks)

- a. Native v/s Cultivated Yeast
- b. Agave Nectar v/s HFCS
- c. Artesian v/s Mineral Water
- d. Energy v/s Sports Drinks

Q5. Write short notes on any 2 of the following: (2 x 5 marks = 10 marks)

- a. Manufacture of Packaged Drinking Water
- b. Manufacture of Beer
- c. Manufacture of Whiskey
- d. Manufacture of Rum

Q6. A. Answer the following: (2 x 3 marks = 6 marks)

- a. How is vodka manufactured?
- b. What are the steps involved in gin manufacture?

B. Elaborate upon any 1 of the following: (4 marks)

- a. Manufacture of Sugarcane Juice
- b. Manufacture of Coconut Palm Sap
