



25021043

QP CODE: 25021043

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

B.Sc Food Technology & Quality Assurance

**CHOICE BASED CORE COURSE - FQ6CBT01 - EQUIPMENT AND MATERIAL
DESIGN FOR FOOD PROCESSING PLANT**

2017 Admission Onwards

72AAB377

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What are the necessary phases for realizing an industrial project?
2. Define fixed capital investment.
3. Describe plant safety.
4. Write down the properties of carbon steel and low alloy steel.
5. List out the properties of rubber.
6. Describe installation of process equipment.
7. Describe shredding equipment.
8. What are roller mills?
9. Comment on bread moulders.
10. Hot extrusion is a HTST process.State.
11. List out the effect of blanching on food.
12. Describe the types of enrobers.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Describe manufacturing cost and profitability and break-even point.
14. Describe GMP for a food processing industry.
15. Write a note on fabrication of equipment.
16. Write down the importance of CIP system in a food processing industry.
17. Explain pressure homogenisers and ultrasonic homogenisers.
18. Write a short note on equipments used for mixing low or medium viscosity liquid foods.
19. Explain mixers used for high viscosity liquid foods and pastes.
20. What are extruders? Explain with the help of a suitable diagram.
21. Explain panning.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain designing of an instrument. Describe the constructional and operating characteristics for selection of food processing equipment.
23. Define blending. Explain the types of equipments used for blending.
24. Explain blanching and its effect on food quality.
25. Discuss any two processing equipment commonly used in a food processing plant with suitable diagrams.

(2×15=30)

