

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B.Tech. (D.T.)

Semester	: VIII (V Dean)	Academic Year	: 2023-2024
Course No.	: DT-811	Course Title	: Dairy Plant Management
Credits	: (1+1=2)	Total Marks	: 50
Day & Date	: Tuesday, 23/07/2024	Time	: 02 hrs

- Note :**
- 1) All questions from **Section 'A'** are compulsory.
 - 2) Solve **Any Three** questions from **Section 'B'**.
 - 3) Draw neat and well labelled diagram wherever necessary.

SECTION – 'A'

Q. 1 A) Choose the most appropriate answer from the options given below. (05)

- i) The charts which are used to determine the project schedule are
 - a) Flow charts
 - b) Gantt charts
 - c) Pie charts
 - d) Stock charts
- ii) The objective of preventive maintenance is
 - a) Increase equipment efficiency
 - b) Increase overall processing cost
 - c) Increase BOD
 - d) Increase maintenance cost
- iii) The lack of lubrication system results in
 - a) More Productivity
 - b) Less production
 - c) Equipment breakdown
 - d) More maintenance cost
- iv) The process of keeping product contact surface sterile
 - a) Rinsing
 - b) Washing
 - c) Cleaning
 - d) Sanitation
- v) Laboratory apparatus should be sterilized in hot dry air at
 - a) 121°C/2 h
 - b) 121°C/3 h
 - c) 130°C/2 h
 - d) 160°C/2 h

B) Define the following. (05)

- i) Control charts
- ii) Process Sigma
- iii) Inventory
- iv) Audit
- v) Human resource management

Q. 2 A) Answer in one line. (05)

- i) What is the objective of preventive maintenance?
- ii) Explain Job satisfaction in one line.
- iii) What care should be taken in milk packaging section?
- iv) Enlist types of hazard.
- v) What is the standard for coliform in water used in food industry, as per BIS?

(P.T.O.)

- B) State whether True or False. If false, rewrite the statement after making necessary corrections in the underlined words. (05)
- i) HACCP is stands for Hazard Analysis Central Control Point.
 - ii) The lubrication schedules and routine spare parts programme are included in processing schedule.
 - iii) Most effective and efficient lubrication system is orifice control system.
 - iv) The water which contains salts of calcium and magnesium as carbonates and sulphates are neutral water.
 - v) Acid forms soluble salts of metallic ions.

SECTION –‘B’

- Q. 3 A) Give the function and structure of Production management. (05)
B) Discuss time study and measurement motion in context with production management. (05)
- Q. 4 A) Discuss modes of energy conservation in dairy plant. (05)
B) Explain factory act and regulations in India. (05)
- Q. 5 Answer the following.
A) Describe promotion policies in an organization. (03)
B) Explain financial efficiency. (03)
C) What are different types of hazards? How they can be prevented? (04)
- Q. 6 Answer the following:
A) Discuss the difference between Preventive and Break-down maintenance. (03)
B) Describe importance of personal hygiene in food industry. (03)
C) What is Managerial efficiency? How can it be improved? (04)
- Q. 7 Explain how the efficiency of plant operation can be derived in terms of operational and processing losses. Give measure to control fat and SNF losses in milk plant. (10)
