

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B. Tech. Dairy Technology 2019-20

Semester	: VII (New Syllabus)	Academic Year	: 2019-2020
Course No.	: DT-712	Course Title	: Dairy Plant Management and Pollution Control
Credits	: 1+1=2	Total Marks	: 50
Day & Date	: Friday, 10.01.2020	Time	: 11.00 to 13.00 Hrs.

- Note :**
- 1) All questions from **Section 'A'** are compulsory.
 - 2) Solve **Any Five** 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 management function which plans, organizes, coordinates, directs and controls the material supply and processing activities of an enterprise
 - a) Marketing management
 - b) Operations Management
 - c) Production management
 - d) All of these
 - ii) The organic waste water strength is measured in terms of
 - a) Suspended solids
 - b) Total solids
 - c) Milk solids
 - d) BOD
 - iii) The example of solid waste in boiler section
 - a) Oil
 - b) Coal
 - c) Ash
 - d) Wood
 - iv) The example of surface active agents used in detergent is
 - a) Sodium sesquicarbonate
 - b) Quaternary ammonium compounds
 - c) Sodium hexametaphosphate
 - d) Sodium carbonate
 - v) The objectives of preventive maintenance is
 - a) Increase the efficiency of equipment
 - b) Decrease processing costs
 - c) Decrease BOD
 - d) Increase cost of maintenance
- B) Write definition/ explain the following in one or two lines. (05)
- i) Job enrichment
 - ii) Hard water
 - iii) Chelating agents
 - iv) Sanitation
 - v) Preventive maintenance

(P.T.O.)

Q. 2 A) State whether True or False. If false, rewrite the statement after making necessary corrections in underline word (05)

- i) The biological method used for treating the effluent is microfiltration.
- ii) Sound is measured in unit called decibel.
- iii) The milk solids from air emissions in the powder section can be minimized by Separators.
- iv) The lack of lubrication system results in equipment breakdown.
- v) The method of evaluating the behavior of employees in the work spot is performance appraisal.

B) Give one or two examples of. (05)

- i) Benefits of production planning and control.
- ii) The common acids in dairy industry for cleaning purpose.
- iii) External factors affecting Human Resource Plan.
- iv) Types of hazard
- v) Types of maintenance.

SECTION - 'B'

Q. 3 Explain in detail functions of management. (06)

Q. 4 Explain effluent treatment operations in detail. (06)

Q. 5 Explain types of pollutants; its causes and effects. (06)

Q. 6 A) Advantages of Preventive Maintenance. (02)

B) Explain Plant House Keeping. (02)

C) Benefits of Lubrication. (02)

Q. 7. A) Narrate safety precautions during cleaning operation of HTST pasteurizer. (03)

B) Narrate safety precautions for handling hazardous chemicals. (03)

Q. 8 Write a short note.

A) Job specification (02)

B) Job evaluation (02)

C) Job enhancement (02)

Q. 9 A) Define cleaning and sanitation. (02)

B) Explain in brief different cleaning and sanitizing agents. (04)
