

S.NO: 22N1-UCH

Subject Code: BQS2

A.D.M.COLLEGE FOR WOMEN, NAGAPATTINAM

(AUTONOMOUS)

B. Sc. (CHEMISTRY) Degree Examination

V Semester – November 2022

SBE II – APPLIED CHEMISTRY

Time: 3 hours

Maximum Marks: 75

Section –A

10X2=20

Answer ALL the Questions:

1. What is meant by hardness of water?
2. State the definition of soft water.
3. What is COD?
4. State the definition of pH.
5. What is meant by hide?.
6. State the definition of tanning.
7. Write the definition of milk.
8. What is meant by pasteurization?
9. Define ice creams.
10. What is the definition of ghee?

Section -B

5X5=25

Answer **ALL** the Questions:

11. a) Predict the principle of Reverse osmosis. Explain its significance.

(Or)

b) Examine the principle of ion-exchange method. Discuss briefly this technique in the purification of water

12. a) Analyze the principle of BOD.

(Or)

b) Assess the importance of EDTA in total hardness of water.

13. a) Assess the structure of hide and skin.

(Or)

b) Distinguish between vegetable tanning and chrome tanning

14. a) Explain the physicochemical properties of milk.

(Or)

b) Evaluate the chemical change taking place in milk during sterilization and boiling.

15. a) Examine the need for making milk powder.

(Or)

b) Assess the definition of butter and milk powder.

Section -C

3 X 10 = 30

Answer any **THREE** Questions:

16. Outline the types of water. Distinguish between temporary hardness and permanent hardness of water. Assess any one method of removing permanent hardness of water.
17. Outline the definition of TDS. Determine the TDS of water.
18. Analyze the procedure for leather manufacturing.
19. Explain briefly the chemical changes taking place in the milk during the process of homogenization and pasteurization.
20. Assess the principles involved in drying process of milk powder.
