

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
APPLIED CHEMISTRY (15SCH6A)

UNIT-I SECTION-A 2 marks

1. Define milk
2. What is meant by sterilization?
3. What is meant by homogenization?
4. What is pasteurization?
5. Define milk powder
6. Write the general composition of milk
7. Define Ice cream?
8. What is the role emulsifier in ice cream?

SECTION-B 5 marks

1. Define milk powder. Discuss the need for making milk powder.
2. Write short note on Pasteurization and Homogenisation of milk.
3. Write short notes on ice-cream stabilizer and emulsifiers.

SECTION-C 10 marks

1. Explain the components of milk in detail?
2. Write the definition of composition of cream of butter?
3. Write the manufactured of milk powder by spray drying method?
4. Discuss the physiological changes taking place in milk due to boi

UNIT -II SECTION-B 2 marks

1. Define soil
2. Define soil reclamation
3. What are secondary nutrients?

4. What is pH of soil?
5. Define soil alkalinity

5 marks

1. Explain buffering of soil and its effect.
2. Write note on soil fertility and its evaluation
3. Write note on soil water and soil temperature.

10 marks

1. Explain in detail the classification and properties of soil.
2. Explain the following terms; soil pH, soil minerals, soil fertility and soil colloids.

UNIT III SECTION-A 2 Marks

1. What are fertilizers?
2. Define compost
3. Define manure
4. What are primary nutrients? Give examples
5. Write the uses of fertilisers.
6. What are insecticides? Give examples.

SECTION-B 5 marks

1. Write short notes on fluoride compound insecticides.
2. Write the classification of insecticides with examples.
3. Explain the role on the growth and development of composting and manures.
4. Writ note on pyridine compound insecticides.

SECTION-C 10 marks

5. What are the importances of fertilizers? Discuss the adverse effects of pesticides of fertilizers.

6. Write short notes on pyridine and boron compound insecticides.
7. What are fertilizers? Discuss the ill effects of continuous use of chemical fertilizers and insecticides.
8. Describe about pyridine compound and fluoride compound insecticides.

UNIT IV SECTION-A 2 marks

1. Define calorific value?
2. Give the composition of producer gas.
3. Mention the composition of water gas.
4. What are the uses of natural gas?
5. What is LPG?
6. Give the composition of Natural gas.

SECTION-B 5 marks

1. What is LPG? State its composition and its uses.
2. Write the composition and uses of carburetted water gas.
3. Mention the composition of producer gas and carburetted water gas.

SECTION-C 10 marks

1. Give details of composition and sources of the following gases:
(a) Semi water gas (c) producer gas (d) biogas (e) water gas.
2. How are the following produced:
(a) Natural gas (b) oil gas (c) carburetted water gas.
3. How is the producer gas obtained? What are its uses?

UNIT 5 SECTION-A 2 marks

1. What are the types of glasses?
2. What is the composition of cement?
3. What is meant by setting of cement?

SECTION-B 5 marks

1. Write short notes on paints.

2. Write a short note on pigments.
3. Explain the different types of glasses.

SECTION-C 10 marks

1. Explain composition and manufacture of cement.
2. Explain the manufacture and different types of glasses.
3. Discuss about the manufacture and types of glass.