

**D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**

**ALLIED-II (15CACH2A)**

**UNIT-I      SECTION-A      2 marks**

1. What are fertilizers? Give examples.
2. Write the uses of saccharin.
3. Draw the structure of gammaxane.
4. Mention any four gaseous pollutants.

**SECTION-B      5 marks**

1. Write a note on NPK fertilizers.
2. Write a note on air pollution.
3. Write the preparation & uses of Freon & Gammaxane.
4. Write short note on soil pollution.
5. Explain the preparation & mode of action for detergents.
6. Write the causes and remedies of air pollution.
7. Write the preparation & properties of permono sulphuric acid.
8. Write short notes on urea & triple superphosphate.

**SECTION-C      10 marks**

- 1.(i) Discuss the mode of action of soaps & detergents.  
(ii) Write the preparation & properties of per mono sulphuric acid.
2. Explain in detail about water pollution & its remedies.
3. Write the preparation & use of saccharin & carbon tetra chloride.
4. Explain the preparation & uses of the following (a) gammaxene (b) triple super phosphate.
5. Explain the preparation & properties of per acids of sulphur.
6. Write the preparation & mode of action of soaps & detergents.

**UNIT-II      SECTION-A      2 marks**

1. What is meant by hypnotics?
2. What are the uses of antiseptics?
3. Differentiate analgesics and antiseptics.
4. Give the causes for cancer.
5. What are the causes of AIDS?
6. What are antipyretic drugs? Give one example.

**SECTION-B                      5 marks**

1. Define the terms analgesics & antipyretics with one example.
2. Explain about general and local anaesthetics.
3. Write short note on diabetes.
4. Write short notes on anaesthetic.

**SECTION-C                      10 marks**

1. Explain the following (i) antipyretics (ii) anaesthetics.
2. Write the cause & treatment of cancer & diabetes.

**UNIT-III      SECTION-A                      2 marks**

1. What are non-essential amino acids?
2. Write any two properties of glycine.
3. Give at least two example for essential amino acids.

**SECTION-B                      5 marks**

1. Differentiate between DNA & RNA.
2. Discuss the classification of proteins.
3. Write the preparation and properties of glycine.

**SECTION-C                      10 marks**

1. Explain the preparation of glycine.
2. Write a note on antioxidants, colouring & flavouring agents.
3. Discuss the classification of proteins based on physical & biological functions.

4. Give a detailed account of classification of proteins based on physical properties & biological functions.

**UNIT-IV      SECTION-A      2 marks**

1. Define bond order.
2. What are silicates?
3. Write any two uses for EDTA.
4. Give the IUPAC name of  $[\text{Fe}(\text{CN})_6]^{4-}$ .

**SECTION-B      5 marks**

1. Write the postulates of Werner's theory.
2. Explain the MO diagram for  $\text{N}_2$  molecule.

**SECTION-C      10 marks**

- 1.(i) Discuss the biological functions of chlorophyll.  
(ii) Write an essay on the structure of ortho silicates & cyclic silicates.
2. Discuss about the function & structure of haemoglobin & chlorophyll.
3. Discuss the preparation & structure of silicates.
4. Explain the applications of EDTA & functions of haemoglobin & chlorophyll.

**UNIT-V      SECTION-A      2 marks**

1. Write the medicinal applications for neem.
2. What is meant by Rh factor.

**SECTION-B      5 marks**

1. Explain the causes & symptoms for malaria.
2. Write short note on blood pressure.

**SECTION-C      10 marks**

1. Write a note on Indian medicinal plants.
2. Write a note on the causes, symptoms & treatment of (i) Cholera (ii) Jaundice & (iii) Malaria.