

D. K. M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****JUNE - 2022****21CACH2A****ALLIED: CHEMISTRY - II****Time: 3 Hours****Max. Marks: 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. What are the causes of air pollution?
2. Define chromophores. Give an example.
3. What do you know about anaesthetics?
4. Write the causes of diabetes.
5. What is meant by Rh factor?
6. Give any three uses of neem.
7. What are amino acids? Give an example.
8. What are nucleic acids?
9. What are bonding orbitals?
10. Give any two applications of EDTA.

SECTION – B (5 x 5 = 25)**Answer ALL the questions.**

11. (a) Explain the causes and remedies of water pollution.
(Or)
(b) Write a short notes on azo dyes. Give examples.
12. (a) Write notes on analgesics, antipyretics and sedatives. Give examples.
(Or)
(b) Discuss about preservatives, antioxidants and sweetening agents.
13. (a) Write the causes and symptoms of hypertension and hypotension.
(Or)
(b) Write the uses of Kizhanelli, Semparuthi, and Thoothuvalai.
14. (a) Write the preparation, structure and any two properties of glycine.
(Or)
(b) Explain the structure and biological functions of DNA and RNA
15. (a) Calculate the bond order of O₂, N₂ and H₂.
(Or)
(b) Write a short note on haemoglobin and chlorophyll.

SECTION – C (3 x 10 = 30)**Answer any THREE of the following questions.**

16. What are fertilizers? Write the preparation and uses of superphosphate of lime, triple superphosphate and urea.
17. Write the causes and treatment of cancer and AIDS.
18. Write the causes and symptoms of jaundice, cholera, malaria and filaria.
19. Discuss the classification of proteins based on physical properties and biological functions.
20. (i) Explain MO theory and draw the MO diagram of O₂.
(ii) Discuss Werner's theory of coordination compounds.