

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****APRIL - 2019****15CACH2A****ALLIED : CHEMISTRY - II****Time : 3 Hours****Max. Marks : 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. What are mixed fertilizers?
2. Mention the uses of Gammoxene.
3. Define anaesthetics.
4. What are antioxidants?
5. What are essential aminoacids? Write example.
6. Differentiate between DNA and RNA.
7. Calculate bond order in N₂.
8. Expand EDTA. Mention its application.
9. What is Rh factor?
10. Mention two diseases spread through mosquitoes. List out the symptom for each.

SECTION – B (5 x 5 = 25)**Answer any FIVE of the following questions.**

11. Explain the preparation, uses of urea and superphosphate of lime.
12. List out the modes of transmission of HIV.
13. Outline the classification of proteins.
14. Describe Werner's theory.
15. Construct Molecular Orbital diagram for O₂.
16. Explain the causes, symptoms and drugs for Jaundice.
17. Describe the preparation and properties of glycine.
18. Explain the preparation and mode of action of soaps.

SECTION – C (3 x 10 = 30)**Answer ALL the questions.**

19. (a) Elaborate on the causes and remedies of water pollution.

(Or)

- (b) Describe the causes and treatment of Cancer.

20. (a) i) Discuss the structure and biological functions of DNA.

(5+5)

- ii) Write a short note on blood pressure.

(Or)

- (b) What are silicates? Explain the preparation and structure of silicates.

21. (a) Write in detail about the uses of Indian medicinal plants - Tulasi, Neem, Kizhanelli, Semparuthi and Thoothuvalai.

(Or)

- (b) What is diabetes? Explain the causes and treatment of diabetes.