

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**SEMESTER EXAMINATIONS****NOVEMBER - 2018****15CACH1A****ALLIED : CHEMISTRY - I****Time : 3 Hours****Max. Marks : 75****SECTION – A (10 x 2 = 20)****Answer ALL the questions.**

1. What are isotopes? Give example.
2. What is meant by binding energy?
3. Distinguish between ores and minerals.
4. Why is penicillin not given orally?
5. Mention the sources and uses of vitamin D.
6. Define mutarotation.
7. Write one confirmatory test for primary amine.
8. Give the sources and composition of Gobar gas.
9. What are the different types of chromatography?
10. Write the bridge structure of Diborane.

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

11. Discuss the properties of α , β and γ - radiations.
12. How is Titanium extracted from its Ore? Mention its uses.
13. Explain briefly about the refining of metals.
14. Explain the medicinal uses and side effects of tetracycline and streptomycin.
15. Write a short note on the functions of insulin and adrenaline.
16. Discuss the oxidation and reduction reactions of Glucose.
17. Write notes on a) water gas b) semi - water gas.
18. Describe the principle and applications of TLC.

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

19. (a) Discuss the applications of radioactive isotopes in carbon dating and medical field.

(Or)

- (b) Write the ores of cobalt. How will you extract cobalt from its ores?

20. (a) Write the classifications of vitamins. What are the sources and uses of vitamins? Mention the diseases caused due to their deficiency.

(Or)

- (b) What are Sulpha drugs? Discuss the preparation and uses of any two sulpha drugs.

21. (a) Write the confirmatory tests for aldehyde, phenol, diamide and carboxylic acids.

(Or)

- (b) Write notes on i) Silicones and ii) Safety matches.

(5+5)

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