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**D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**  
**SEMESTER EXAMINATIONS**  
**NOVEMBER - 2016**

15CACH1A

**ALLIED: CHEMISTRY - I**

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**Time: 3 Hrs****Max. Marks: 75****SECTION-A (10 x 2 =20)****Answer ALL the questions.**

1. Define Isobar.
2. Define N/P ratio.
3. What is meant by Zone refining?
4. Write the preparation of Inorganic benzene.
5. Give the structure of penicillin.
6. What are sulpha drugs? Give examples.
7. 
$$\begin{array}{c} \text{CHO} \\ | \\ (\text{CHOH})_4 \\ | \\ \text{CH}_2\text{OH} \end{array} \xrightarrow[\text{[O]}]{\text{Br}_2/\text{H}_2\text{O}}$$
8. Write molisch's test.
9. Define  $R_f$  value.
10. Write the composition of water gas.

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

11. Give the properties of  $\alpha$ ,  $\beta$  and  $\gamma$ , radiations.
12. How will you prepare diborane. Explain its structure.
13. Explain any one method of ore dressing.
14. Write the preparation of sulphapyridine and sulphadiazine.
15. Explain mutarotation.
16. Write any five applications of silicones.
17. Explain the principle and applications of thin layer chromatography.
18. Explain the following confirmatory tests.
  - i) Biuret test.
  - ii) Dye test.

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

19. (a) i) write the applications radioisotopes. (5)
- ii) Explain binding energy. (5)

(Or)

(b) i) Write the extraction of Titanium. (5)

ii) Write short notes on borazole. (5)

20. (a) Explain the physiological functions of Insulin and Adrenaline.

(Or)

(b) What are vitamins? Write the classification, occurrence and deficiency diseases of vitamin A, B, CD, E & K

21. (a) Explain the principle and applications of paper chromatography.

(Or)

(b) i) Explain osazone formation. (5)

ii) Write notes on of safety matches. (5)

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