Reg.No : | | | | | | | | | | | |

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

SEMESTER EXAMINATIONS

APRIL - 2019 **15CBC4A**

ANALYTICAL BIOCHEMISTRY AND COMPUTER APPLICATIONS

Time : 3 Hours **Max. Marks : 75**

SECTION – A (10 x 2 = 20)

Answer ALL the questions.

1. Define wave length and wave number.
2. State the Beer Lambert's law.
3. Give examples of any two fluorescent probes.
4. State Stokes law.
5. Write short notes on the different units of radioactivity.
6. What are the different types of radioactive decay? Define half life.
7. Give examples of any two input and output devices.
8. Discuss the number system used in computers.
9. Discuss the features of Windows 98.
10. Write a note on the various toolbars used in Windows.

SECTION – B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Define electromagnetic radiations. List its properties.
12. Explain the principle and instrumentation of atomic absorption spectrophotometry.
13. Elaborate the use of Geiger Muller counter in the measurement of radioactivity.
14. Write short notes on the classification of digital computers.
15. What are the parts of Power Point? Discuss its working.
16. Throw light on the uses of absorption and emission spectra in the study of macromolecular structure.
17. Explain isotope dilution technique with suitable examples.
18. What are the applications of flame photometer?

SECTION – C (3 x 10 = 30)

Answer ALL the questions.

19. (a) Give an elaborate account of the principle, instrumentation and applications of UV Visible spectrophotometer.

    (Or)

    (b) Write a detailed account of computer architecture.

20. (a) Explain the working of a spectrofluorimeter with a neat labelled diagram. List its applications in vitamin assays.

    (Or)

    (b) Define a computer network. Discuss the common types of computer networks used.

21. (a) Give a detailed account of the applications of radioisotopes in biology.

    (Or)

    (b) Throw light on the biological hazards of radiation and the safety measures to be followed while handling radioisotopes.

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