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

SEMESTER EXAMINATIONS

NOVEMBER – 2017

15CPBC1A

ANALYTICAL BIOCHEMISTRY

Time : 3 Hours

Max. Marks : 75

SECTION – A (5 x 6 = 30)

Answer ALL the questions.

1. (a) What are the merits of Clark's oxygen electrode?
(Or)
(b) Write about the manometric technique and its applications.
2. (a) Distinguish between preparative and density gradient centrifugation.
(Or)
(b) Explain the safety aspects in handling radio isotopes.
3. (a) Write notes on Isoelectric focusing.
(Or)
(b) Define electrophoresis. List out the factors affecting electrophoresis.
4. (a) Discuss about the principle, methodology and applications of Ion Exchange Chromatography.
(Or)
(b) Explain the principle, instrumentation applications of TLC.
5. (a) Discuss about the principle and applications of UV-Visible spectroscopy.
(Or)
(b) Write about Turbidometry and Nephelometry.

SECTION – B (3 x 15 = 45)

Answer any THREE of the following questions.

6. Discuss in detail about
 - (i) Henderson – Hasselbalch equation.
 - (ii) Cryopreservation.
7. Explain the applications of radioisotopes in medicine and biology.
8. Give a detailed account on SDS PAGE electrophoresis.
9. Explain the principle, methodology and applications of HPLC.
10. Explain in detail about the principle and applications of NMR.
