



**MAR IVANIOS COLLEGE (AUTONOMOUS)**  
**THIRUVANANTHAPURAM**

Reg. No. :.....

Name :.....

**Second Semester Career Related B.Sc. Degree Examination, June 2016**

**First Degree Programme under CBCSS**

**Foundation Course – II: (for Botany and Biotechnology)**

**AUBB221: Biophysics and Instrumentation**

Time : 3 Hours

Max. Marks : 80

**SECTION – A**

*Answer ALL questions in a word or one or two sentences.*

1. Enthalpy and entropy.
2. MALDI – TOF.
3. Redox potential.
4. Molar extinction coefficient.
5. Partition Principle in chromatography.
6. Absorption spectra.
7. Beer Lamberts law.
8. Condenser in microscopes.
9. Principle of Electrophoresis.
10. Radio isotopes.

**(10 × 1 = 10 Marks)**

**SECTION – B**

*Answer any EIGHT questions, not exceeding a paragraph.*

11. Thermodynamic equilibrium.
12. Phase contrast microscopy.
13. Two dimensional electrophoresis.
14. Ultra centrifugation.

