

Code: 9A23402**R09**

B.Tech II Year II Semester (R09) Supplementary Examinations December/January 2015/2016

ANALYTICAL METHODS IN BIOTECHNOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Discuss how the instrumental methods are very much important and write the applications.
- 2 Write a note on:
 - (a) Confidence limits of instruments.
 - (b) Phase contrast microscopy.
- 3 Define spectroscopy and discuss how the spectrofluorometer works.
- 4 Give a brief explanation about optical rotary dispersion.
- 5 Illustrate different types of electrophoresis.
- 6 Discuss the principle, working and applications of thin layer chromatography.
- 7 Write a note on:
 - (a) Temperature monitoring and control devices.
 - (b) Importance of pH.
- 8 What are the methods involved in measurement of radioactivity.
