

P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI

Internal Examination

B. Sc. SEM - VI

[Mark : 40

16-3-2017]

Paper BT - 604

[1-30 to 3-30

Analytical techniques in Biotechnology

- 1. Attempt any five questions. Each question carries 2 mark. 10**
 - (1) Write any four advantages of immobilizing cells.
 - (2) Give the full form of PDB, EMBL, OECD & BLAST.
 - (3) Enlist Bioreactors for immobilized cells.
 - (4) Write any three Role of Quality Management.
 - (5) Write any four characteristics of Ideal biosensors.
 - (6) What are the responsibilities of QA Personnel ?

 - 2. Answer any 4 questions. Each question carries 5 marks 20**
 - (1) Describe types of Alignment with examples.
 - (2) Explain application of bioinformatics in lifesciences.
 - (3) Enlist types of Ion source with examples and Explain MALDI-TOF.
 - (4) Describe TEM in detail.
 - (5) Write a short note on Quantitative Analysis.
 - (6) Enlist Components of Biosensor & explain biological element used in construction of biosensor.

 - 3. Answer any 1 question. Question carries 10 marks. 10**
 - (1) Enlist types of Bright Field Microscopy. Explain DIC and AFM with suitable diagram in detail.
 - (2) Explain methods of immobilization in detail.
 - (3) Describe the basic principles of Good Laboratory Practices in detail.
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