FACULTY OF SCIENCE
B.Sc. III – Year Examination, March / April 2015
Subject: Bio-Technology (General)
Paper – IV
Applications of Bio-Technology

Time: 3 hours
Max. Marks: 100

Note: Answer all questions. All questions carry equal marks.

1 a) Write on transgenic animals and molecular pharming.
   OR
   b) What are different cell culture media and types of cultures?

2 a) Write about applications of recombinant DNA technology in agriculture.
   OR
   b) What is the role of different growth regulators in plant cell differentiation?

3 a) Write on primary and secondary metabolities produced by micro-organisms and their isolation.
   OR
   b) Explain various fermentative products of microbial origin.

4 a) How are municipal and industrial effluents treated?
   OR
   b) Discuss in detail about biopesticides.

5 Write short notes on any Three of the following:
   a) Fermentative foods
   b) Microbial hydrogen production
   c) Induction of plant callus
   d) Ex-vivo gene therapy
   e) Ore leaching

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