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B. Sc. (Hon's) (Sixth Semester) Examination, 2020

BIOTECHNOLOGY

Paper : First

(Zoology : Immunotechnology)

Maximum Marks : 35

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

1. Describe Innate and Acquired Immunity.
2. Discuss the role of MHC and other molecules.
3. Discuss humoral immune response.
4. Write an classification of hypersensitivity and mode of action.
5. Discuss hybridomatechnology.

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BIOTECHNOLOGY

Paper : Second

(Medical Biotechnology & Bioinformatics)

Maximum Marks : 35

नोट : सभी प्रश्न अनिवार्य हैं। सभी प्रश्नों के अंक समान हैं।

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

1. आनुवांशिक रोगों की पहचान एवं उपचार को विस्तृत रूप से समझाइये।

Write an essay on detection and treatment of genetic disease.

2. जीन उपचार, इसकी सफलता एवं भविष्य पर निबन्ध लिखिए।

Write an essay on gene therapy, its initial success and future.

3. औषधि-निर्माण विधियों को विस्तृत समझाइये।

Write in detail drug manufacturing processes.

4. चिकित्सकीय प्रोटीन के खाद्य टीका निर्माण क्या है? विस्तृत रूप से समझाइये।

Write an essay on intellectual property issues in using human embryonic stem cells.

5. बायो-इन्फार्मेटिक्स जीनोम प्रोजेक्ट क्या है? समझाइये।

Explain bio-informatics genome projects.

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BIOTECHNOLOGY

Paper : Third

(Environmental Biotechnology)

Maximum Marks : 35

Note: Attempt all questions. Each questions carries equal marks.

1. Write global initiatives to mitigate climate change.
2. Describe sources and effects of soil pollution.
3. Describe bioremediation of inorganic pollutants.
4. Give a detailed account of integrated pest management.
5. What is bio reporter technology. Write its applications.

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BOTANY

Paper : Fourth

(Industrial Biotechnology)

Maximum Marks : 35

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

1. Explain culture and preservation of microorganism.
2. Describe industrial production of ethanol and amino acids.
3. Explain any **one** of the following :
 - (i) Cheese production
 - (ii) Production of hydrocolloids
4. Describe drug designing.
5. Describe biogas production.