

ISLAMIAH COLLEGE(AUTONOMOUS)

VANIYAMBADI

CIA TEST II MARCH 2020

Time : 3.00 Hrs

Max Marks: 75

Semester : III Sub Code: P8BT2002

Class: I M.Sc., Biotechnology

Subject Name: Animal Biotechnology

PART A (5 X 6 - 30 marks)

1. (a).Types of breeding – Explain
(or)
(b).Chromosomal aberrations in farm animals.
2. (a) Artificial insemination – Describe in detail.
(or)
(b). Transgenic animals.
3. (a). Sterilization technique in Animal cell culture laboratory.
(or)
(b). Cell viability assay techniques – explain.

4. (a). Write about common Viral diseases in animals.

(or)

- (b). Animal cell culture techniques in vaccine development.

5. (a). Diagnosis of genetic diseases

(or)

(b).

Gene Therapy

PART B (3 X 15 - 45)

Answer any THREE questions

6. Different types of animal cell cultures – Detail
7. Preservation of animal cells – Detail.
8. Production of recombinant vaccines.
9. Explain various ethical issues in animal biotechnology
10. Application of cell culture in disease diagnosis.

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VANIYAMBADI
CIA –II MARCH 2020**

TIME : 3 Hrs

MAX. MARKS: 75

Class: I M.Sc Biotechnology

Semester: II

Sub. Code: P8BTE201

Subject Name: Molecular Genetics

PART - A (5 X 6 = 30 MARKS)

Answer ALL Questions

1. (a). Write a note on bacterial transformation.

Or

- (b). Make a short note on sex-duction.

2. (a). Write the structure of Ti plasmids and discuss its functions.

Or

- (b). Make a brief note on Drug resistant plasmids.

3. (a). Explain the structure of transposons.

Or

- (b). What is the role of IS elements in Hfr formation.

4. (a). Make short notes on Karyotypes.

Or

- (b). How will you measure polygenic inheritance.

5. (a). Discuss briefly germinal versus somatic mutants.

Or

- (b). What is insertional mutagenesis. Elaborate

PART - B (3 X 15 = 45 MARKS)

Answer any THREE Questions

6. How will you map genes by interrupted mating?
7. Discuss the types of plasmids.
8. Explain the types of bacterial transposons.
9. Explain QTL mapping
10. Discuss the mutant types

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CIA TEST II – MARCH 2020

Time: 3 Hrs. Max. Marks: 75

Class: Sem: II Sub. Code: P8HR2001

HUMAN RIGHTS
PART – A (5×6 = 30 Marks)
Answer ALL questions

1. (a) Discuss about the important definitions of Human Rights.
(Or)
(b) Highlight on the important theories of Human Rights.
2. (a) Write about the Civil and Political Rights enshrined in the International Covenant.
(Or)
(b) Describe about the Economic, Social and Cultural Rights in the International Covenant.
3. (a) Write about the powers and Functions of the United Nations High Commission for Refugees.
(Or)
(b) Discuss about the role of U.N.O. in Safeguarding Human Rights.
4. (a) Write about the Helsinki Process.
(Or)
(b) Discuss about the monitoring of Human Rights in Europe.

5. (a) Write a note on the Directive Principles of State policy in Indian Constitution.
(Or)
(b) What are the powers and Functions of National Human Rights Commission.

PART – B (3×15 = 45 MARKS)
Answer any THREE of the following

6. Trace the historical development of Human Rights.
7. Highlight on the significance of Universal Declaration of Human Rights.
8. Discuss about the Powers, Functions and Duties of United Nations High Commission for Human Rights.
9. Discuss about the role of Amnesty International in Safeguarding Human Rights.
10. Describe in detail regarding the Fundamental Rights enshrined in the Indian Constitution.

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TIME : 3 Hrs

MAX. MARKS: 75

Class: I M.Sc Biotechnology

Semester: II

Sub. Code: P8BT2001

Subject Name: Plant Biotechnology

PART - A (5X 6 = 30 MARKS)

Answer ALL Questions

1. (a). Write the role of hormones in plant tissue culture.

Or

- (b). Discuss the applications of Cryopreservation.

2. (a). Write a brief note on herbicide resistant gene

Or

- (b). How will you transfer gene through physical method.

3. (a). Explain the pathways involved in natural disease resistance.

Or

- (b). Justify the use of Bt genes in the production of transgenic plants

4. (a). Write a note on Bioplastics

Or

- (b). What is nif gene. Elaborate

5. (a). Explain the techniques involved in DNA hybridization.

Or

- (b). What is RAPD. Elaborate.

PART - B (3 X 15 = 45 MARKS)

Answer any THREE Questions

6. Explain in detail germplasm conservation and discuss its applications
7. Explain in detail Agrobacterium mediated gene transfer.
8. Explain the Biotechnological approaches to produce disease resistant plants.
9. Explain in detail the applications of industrial enzymes.
10. Discuss in detail the application of plant markers.

(SAN)

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