

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022****Subject Code:3140407****Date:23-06-2022****Subject Name:Bioethics, biosafety and Principles of management****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.
5. The words in italics bears clear resemblance to its dictionary meaning in English and needs no clarification.

**MARKS**

<b>Q.1</b>	(a) Explain the term: Biosafety	<b>03</b>
	(b) What is the meaning of the word “gene flow”?	<b>04</b>
	(c) Discuss the importance of good laboratory practices.	<b>07</b>
<b>Q.2</b>	(a) Explain the term: GMO (genetically modified organisms)	<b>03</b>
	(b) What is the concern of recombinant DNA technology with biosafety?	<b>04</b>
	(c) Write a note on: Concerns of GMO	<b>07</b>
<b>OR</b>		
	(c) Write a note on: Challenges of GMO	<b>07</b>
<b>Q.3</b>	(a) Enlist biosafety levels for animals with its specific features.	<b>03</b>
	(b) What are ethical concerns associated with germline gene therapy?	<b>04</b>
	(c) Discuss the roles of various regulatory bodies in its context to biosafety standards.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Can species extinction be helped by protocol set for bioethics? Suggest our view.	<b>03</b>
	(b) Enlist the points exhibiting concern for bioethics for biodiversity	<b>04</b>
	(c) Write a note on: experimentation regarding animals	<b>07</b>
<b>Q.4</b>	(a) Define: (i) Scientific management (ii) Bureaucratic organization	<b>03</b>
	(b) Justify : “Management practices differently in every organization”	<b>04</b>

- (c) Write a note on: commercial exploitation of microorganisms and biosafety 07

**OR**

- Q.4** (a) Define: (i) Operation research, (ii) Operation management 03

- (b) Explain in detail the traits of business ethics. 04

- (c) Discuss the relation: Bioethics, biosafety and genome sequencing. 07

- Q.5** (a) Define : departmentalization 03

- (b) What it takes to be an entrepreneur? 04

- (c) What are the functions and skills of manager? 07

**OR**

- Q.5** (a) Explain the terms: centralization and decentralization 03

- (b) What is the importance of planning for manager? 04

- (c) Discuss the role of corporate social responsibilities. 07

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