18BBC31/18BBT31

Third Semester M.Tech. Degree Examination, Jan./Feb.2021 Biosafety & Bioethics

Max. Marks: 100

(10 Marks)

(10 Marks)

Time:	3 hrs.	Max. Marks: 100
Note: Answer any FIVE full questions, choosing ONE full question from each module.		
2.	Module-1	
1 a.	"Traditional knowledge plays an important role in conservation of biodive	ersity". Justify. (10 Marks)
b.	Explain the various challenges that the biotechnology sector facing in Ind	ia. (10 Marks)
	OR	
2 a.	With relevant examples, bring about an analysis of what challenges India	a faces with respect
	to the drug discovery domain.	(10 Marks)
b.	Give an account of the various laws related to ownership and use of biot	(10 Marks)
*	Module-2	
3 a.	What do you understand by Bioethics? Explain its relevance ar	nd applications in
	Biotechnology.	(10 Marks)
b.	What are the ethical implications of biotechnology? Explain with example	es. (10 Marks)
	OR	
4 0	What is the role of bioethics in biomedical research? Explain with a suita	ble case study.
4 a.	What is the fole of blockines in biomedical research. Explain with a batta	(10 Marks)
, b.	Give an account of the ethical issues related to xenotransplantation.	(10 Marks)
	Module-3	
5 a.	Compare and contrast GATT and TRIPS in biotechnology sector.	(10 Marks)
b		nt. (10 Marks)
	OR	(10 Marks)
6 a	Give an account of cartagena protocol in biosafety.	
↓ b	What do you understand by containment levels? How is it applied in the	(10 Marks)
	Module-4	
7 a	Give an account of the issues related to the use of GMOs in food.	(10 Marks)
/ a	Compare the risks involved in human and animal cloning.	(10 Marks)
U	Compare the risks involved in namen and animal orders.	
	OR	
8 a	Enumerate and explain the NIH guidelines for research in transgenic ani	mals. (10 Marks)
b	2.1 N. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	echnology.
\$	Access to the second se	(10 Marks)
),	Module-5	
9 a	. Compare the risks and benefits associated with participating in clinical to	rials. (10 Marks)
b	Calant has a dism might and former	rs right. (10 Marks)

OR

a. Explain the various regulations that are evident for recombinant research.

Give an account of CCAC guidelines.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.