

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MSc
BRANCH: BIOTECH

SEMESTER: IIIrd
SESSION: MO/2025

SUBJECT: BT503 BIOSAFETY, BIOETHICS AND IPR

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q.1(a)	What is patent? Explain the third amendment to the Indian Patent Act, 1970.	[5]	1 2
Q.1(b)	Differentiate between a trademark and a copy right.	[5]	1 4
Q.2(a)	Define invention. How is invention explained in the patent specification?	[5]	2 2
Q.2(b)	Explain the various types of Patent application.	[5]	2 1
Q.3(a)	Analyze different properties of infringement and how can patent be infringed?	[5]	3 4
Q.3(b)	What are various types of licences? Differentiate license and assignment.	[5]	2 4
Q.4(a)	Examine the various aspect of assessment and evaluation on GMO to ascertain biosafety.	[5]	3 4
Q.4(b)	Elaborate on Cartagena protocol on biosafety.	[5]	4 5
Q.5(a)	Why animal testing is unethical? Explain.	[5]	3 3
Q.5(b)	Analyze social and ethical implication due to use of biological weapons.	[5]	4 4

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