

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

**CLASS: MSC
BRANCH: BIOTECH**

**SEMESTER: 3rd
SESSION: MO/2023**

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)	How many amendments were done to the Indian Patent Act, 1970? discuss	[5] 1	2
Q.1(b)	Classify the types of intellectual property.	[5] 2	3
Q.2(a)	Explain the various types of Patent application.	[5] 2	3
Q.2(b)	Comment on patent specification? Which are the various types of patent specification?	[5] 3	2
Q.3(a)	Define infringement. How can patent be infringed?	[5] 1	2
Q.3(b)	Differentiate between rights and duties of patentee.	[5] 2	3
Q.4(a)	Elaborate on Cartagena protocol on biosafety	[5] 4	5
Q.4(b)	What are the different risk assessments associated with genetically modified plants? Discuss.	[5] 3	3
Q.5(a)	Why animal testing is unethical? Explain.	[5] 3	3
Q.5(b)	Discuss the various social and ethical implications due to use and development of biological weapons.	[5] 4	3

:::23/11/2023 E:::