

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Supplementary Examination- 2026

M.Sc BT -3<sup>rd</sup> Sem (BT)

COURSE CODE(CREDITS): 20MS1MB315 (2)

MAX. MARKS: 75

COURSE NAME: IPR, Bioethics& Biosafety

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 2 Hours

*Note: (a) All questions are compulsory.*

*(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems*

Q.No	Question	Marks
Q1	How IP with R&D, Marketing and Technology acquisition for biotechnological oriented products will be strategized for its revenue generation? Which IP Strategy you would like to use for the commercialization of the Drone developed for Plant Growth monitoring?	10
Q2	How you can proceed for the registration of novel plant variety of Lily flower with delayed senescence developed in Plant Biotech Lab of JUIT? How Biodiversity Act and PBR Act are protecting against infringement? How biodiversity, bioprospecting, and biotechnology are interlinked in the IPR regime toward economic generation? Cite a case study for it	10
Q3	Explain the followings: A: What is the need of PBR Act? B: Why patent databases are required? C: Why Cartagena Protocol is required for Biotech products? D: Why fixation is benefitting copyright and related rights? E: What are the SOPs and Practices of BSL3?	3x5+15
Q4	What biosafety and bioethical factors should be considered while approving the import of a genetically modified crop for field trials? Briefly describe the role of the Cartagena Protocol on Biosafety in guiding such approvals.	10
Q5	An author publishes a book in 2005 and dies in 2040.  1. Calculate the year up to which copyright protection will subsist. 2. In which year will the work enter the public domain? 3. What could be the possible ways of the fixation and adaptations of this literary work? 4. Which could be the possible infringements and their protection measures under WCT?	10
Q6	Which intellectual property is required for protecting the ornamentation part of the newly developed plant growth chamber with temperature and light controls at JUIT? What is the significance of this IP right and how	10

	<p>infringements can be penalized under this protection at national level? How its protection can carried out at International level?</p>	
Q7	<p>A postgraduate student, Reena, is preparing a literature review for her thesis. While searching online, she finds a well-written report on a research blog. Thinking the blog is "informal," she copies several paragraphs directly into her review without citation. When her supervisor runs the document through plagiarism detection software, the copied sections are flagged. Reena argues that the content was freely available on the internet and therefore did not require citation. The department must now decide whether this constitutes plagiarism and whether Reena has violated copyright law. Is online content automatically free to use, or is it academic dishonesty? Does copying without citation violate both plagiarism and copyright rules? How it impacts the integrity of fair research conduct? Which measures may be taken for the same?</p>	10