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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY WAKNAGHAT

TEST -3 EXAMINATION-2025

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

COURSE CODE(CREDITS): 21MS2MB311 (3)

MAX. MARKS: 35

COURSE NAME: IPR, Bioethics& Biosafety

COURSE INSTRUCTORS: Dr Hemant Sood

MAX. TIME: 2hrs

*Note: a) All questions are compulsory.*

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

	Question	Marks
Q1	How would you carry out the protection of <b>novel hybrid medicinal plants from Valeriana and Stevia</b> developed in the BT lab of JUIT? What are the rights conferred to the researchers and breeders for this Intellectual property? Do you think it s under the PVP or PBR Act for its implementations and why?	2.5 +2.5+2.5
Q2	Explain the role of Bioethical & Biosafety committees in the release of Genetically Modified <i>E.coli</i> for protease production at commercial scale as a startup from JUIT. What are the main concerns of these committees and how do they mitigate risk? Which international Protocol implementation is required for its export and import?	2.5+2.5+2.5
Q3.	How you can translate a creative idea into a useful application and explore its avenues for profitability? How do IP digi-search interfaces facilitate the whole process for its applicability? Cite an example for the same	2.5+2.5
Q4	Explain the functions and role of the followings : a. Databases available for IP search b. Cartagena protocol and its advantages c. Exclusive Marketing Rights are needed d. Biodiversity Act e. National IP policy 2016	2x5=10
Q5	How Convention on Biological Diversity contributes for checking Biopiracy ? How biological diversity would be utilized for bioprospecting with value addition of intellectual property ? Give its justification by showing CBD – TRIPs intervention.	1+2+2