

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- 2025

M.Sc.-III Semester (BT)

COURSE CODE (CREDITS): 20MS1BT314 (02)

MAX. MARKS: 35

COURSE NAME: Bioentrepreneurship

COURSE INSTRUCTORS: Dr. Saurabh Bansal

MAX. TIME: 2 Hours

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

Q. No.	Question	Marks
Q 1	<p>a) List two traits of bioentrepreneurs that distinguish them from traditional business leaders.</p> <p>b) What is the primary objective of the Atal Innovation Mission (AIM)?</p> <p>c) Identify one quick win measure from the AIM Pyramid framework that supports biotech startups.</p>	<p>[1]</p> <p>[1]</p> <p>[1]</p>
Q 2	<p>a) Differentiate between patents and trade secrets with biotech examples.</p> <p>b) State one reason why ignoring IP can be fatal for biotech startups.</p> <p>c) Consider a startup developing a point-of-care TB diagnostic. Which IP strategy and licensing path would be most effective and why?</p>	<p>[2]</p> <p>[1]</p> <p>[2]</p>
Q 3	Describe the role of BIRAC in supporting biotech startups through funding and incubation.	[2]
Q 4	Imagine you are advising a biotech entrepreneur launching a new biosimilar in India. Which AIM Pyramid layers would most influence their success?	[2]
Q 5	<p>a) What do you understand by bootstrapping? Describe its role in early-stage biotech ventures.</p> <p>b) Explain the three-step strategy for engaging potential investors or bankers.</p> <p>c) A biotech startup developing a novel cancer therapy needs Rs. 50 Crore for clinical trials. Which financing route (debt vs equity) would be more suitable and why?</p>	<p>[2]</p> <p>[2]</p> <p>[2]</p>
Q 6	Describe the different types of CSR practices (environmental, community, HR, philanthropy) with biotech examples.	[4]

Q 7	A biotech startup wants to raise venture capital. Which organizational structure should it adopt and why?	[2]
Q 8	a) Discuss the differences between mission and vision statements with examples.	[2]
	b) A startup developing low-cost CRISPR diagnostics for rural India: Draft suitable mission, vision.	[2]
Q 9	a) What is regulatory compliance and why is it critical for biotech startups?	[2]
	b) Identify one regulatory body in India relevant to biotech entrepreneurs.	[1]
	c) A biotech firm launching a novel cancer diagnostic kit: Identify regulatory compliances required before market entry.	[1]
Q 10	What is the difference between technology push and market pull in technology transfer? Give suitable example related to Biotechnology.	[3]