Dr Garle pati

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT MID SEMESTER EXAMINATION-2015

M.Tech (Biotechnology), II Semester

COURSE CODE: 14M11BT211

MAX. MARKS: 30

COURSE NAME: Industrial Biotechnology

COURSE CREDITS: 3

MAX. TIME: 2 HRS

Note: All questions are compulsory.

	_	Section A (6 Marks)	
1.	Match the following one's		(3 Marks)
	Discovery /Invention	Scientist	
	(a) Magic Bullet	(i) Davey and Johnson	
	(b) Fed-batch Fermentation	(ii) Waksmann	
	(c) Streptomycin	(iii) Paul Ehrlich	
2.	Fill in the blanks		(3 Marks)
	(a) What is Orlistat	Welliam was all	
	(b) Antitumor agent "Taxol" is produced from the bark of		
	(c) Production of is the first example of use of biological process to com-		to compete
	with a chemical process in petr	ochemical industry.	
	(d)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
~	***	Section B (9 Marks)	
3.	Write about the following one's		(2 5 M)
	<ul><li>(a) Firmicutes used in IB sector</li><li>(b) Types of resistant starch</li></ul>		(2.5 M) (2 M)
4.	Discuss about the following one's		(2.V1)
	(a) Important characteristics of microbes used in IB		(2 M)
	(b) Bating enzymes Vs Meat tenderizing enzymes		(2.5  M)
	to the second of	tizing onzymes	(2.0 111)
	141	Section C (15 Marks)	
5.	Write a brief note on the following one's		
	(a) Covalent chromatography V	s HIC	(2.5M)
	(b) Aim of oil degumming and	Enzymatic degumming	(2.5M)
	(c) How to incorporate a -thiol	(-SH) group in any protein	(1 M)
	(d) For which type of biologicals, IMAC is used as a DSP step of interest		(1 M)
6.	Write in detail about the follow	wing one's	
	(a) Key technological building	blocks of Industrial Biotechnology	(5 M)
	(b) Comparative characteristics	of SSF and SmF	(2.5 M)

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