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(Following Paper ID and ROOTNo. to be filled in your r.com Answer Books)		
Pap	per 1D : 154611 Roll No.	
	B.TECH.	
Theory Examination (Semester-VI) 2015-16		
FERMENTATION BIOTECHNOLOGY		
Tim	e: 3 Hours Max. Marks: 100	
	Section-A	
Q.I	Attempt all parts. All parts carry equal marks. Write	
	answer of each part in short. $(2 \times 10 = 20)$	
a)	What is the difference between submerged and solid state fermentation.	
b)	Write name the first antibiotic, which is effective against tuberculosis.	
c)	What is corn steep liquor used as raw material.	
d)	Write the basic structural unit of cellulose and hemicelluloses.	
	(1) P.T.O.	
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	Elle Strauker	

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Jirst m. Explain the term microbial transformation. Attempt any five parts. All parts carry equal marks:

(5×10=50)

Write the importance of fermentation economics in brief.

btm
List out raw material available in surroundings explain in
cbrief.

Lac operon controlled by the catabolic process of microbes.

Justify in brief?

Describe the technique in brief which is involved in overproduction of metabolites.

Section-C

Note: Attempt any two questions from this section.

(2×15=30)

Explain the general concept of scale up and scale down in fermentation process.

Q3.

Write down the procedure for industrial manufacturing of β-lactum. www.FirstRanker.com

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Write down the storage preservation technique of microculture collection centre in India. organism. Explain in brief. Write two names of microbial

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Q5.

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