

B.TECH.

Theory Examination (Semester-VI) 2015-16 FERMENTATION BIOTECHNOLOGY

Time: 3 Hours Max. Marks: 100

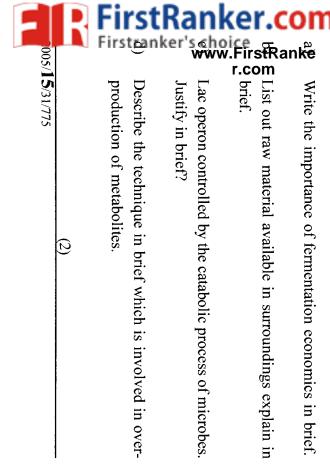
Section-A

- Q.l 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.

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Section-C

ສັກ J**Fr.c.** Explain the term microbial transformation.

Q2. Attempt any five parts. All parts carry equal marks:

 $(5 \times 10 = 50)$

fermentation process.

Section-B

Q3. Explain the general concept of scale up and scale down in Note: Attempt any two questions from this section. $(2 \times 15 = 30)$

Q4. Write down the procedure for industrial manufacturing of β-lactum.

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Q5. 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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