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RF-3656-57

M. Sc. (Part-II) Examination

April / May – 2010

Biosciences (Microbiology) : Paper - VIII

Time : **3** Hours] [Total Marks : **52**

RF-3656

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **M. Sc. (Part-2)**

Name of the Subject :

☛ **Biosciences (Microbiology) - 8**

☛ Subject Code No. : **3 6 5 6** ☛ Section No. (1, 2,.....) : **1**

Seat No. :

Student's Signature

(2) Answer to each section must be written in **separate** answer book.

(3) Make neat diagram wherever necessary.

(4) All questions carry **equal** marks.

1 What is strain improvement? Describe the role of bioinformatics in strain improvement.

OR

1 Describe the designing of a Stirred Tank Reactor.

2 Write any **two** :

(a) Non-conventional sources for screening of industrially important microorganisms.

(b) Air sterilization

(c) General considerations in media formulation

(d) Non-newtonian fluids

RF-3657

Instructions :

(1)

નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☛ signs on your answer book.

Name of the Examination :

☛ **M. Sc. (Part-2)**

Name of the Subject :

☛ **Biosciences (Microbiology) - 8**

☛ Subject Code No. : **3 6 5 7** ☛ Section No. (1, 2,.....) : **2**

Seat No. :

Student's Signature

(2) Answer to each section must be written in **separate** answer book.

(3) Make neat diagram wherever necessary.

(4) All questions carry **equal** marks.

3 Write in detail on fermentative production of Penicillin.

OR

3 Describe the industrial processes for citric acid production.

4 Write on any **two** :

(a) Characteristics of S.cerevisiae used in ethanol production.

(b) Use of mutants in amino acid production.

(c) Microbial production of lipases.

(d) Methods of immobilization of enzyme.
