



Symbol of Secularism
& National Integration

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**

School of Pharmacy

*Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai*

**T. Y. B. Pharm. (Semester –V)
Periodic Theory Examination (2012 – 2013)**

Subject: BIOTECHNOLOGY
Marks: 10 M

Date: - 06/09/2013
Time: - 11.00 am-12.00 pm

(1) All Question are Compulsary

(2) Draw diagram wherever necessary

1. Define the following

(2M)

a) Fermentation

b) Microbiological assay

2. Give classification of different types of fermenter and discuss with suitable diagram design of fermenter

(4M)

OR

Write a short note on TRANSGENIC PLANTS

(4M)

3. Describe with diagram different steps of Phagocytosis

(4M)

OR

What are the different cellular and humoral mediators in Innate defense system?

Describe each one of them in short

(4M)