



Progressive Education Society's
Modern College of Arts, Science & Commerce, Ganeshkhind, Pune-16
(Autonomous)

End Semester Examination: Mar/Apr 2025

Faculty: Science and Technology

Program: B.Sc. Biotech (04)

Semester: VI

SET: A

Program (Specific): Biotechnology

Course Type: Core

Class: T.Y. B.Sc. (Biotechnology)

Max.Marks: 35

Name of the Course: Food and Pharmaceutical Biotechnology

Course Code: 24 BBT-604

Time: 2 Hrs

Instructions to the candidate:

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labeled diagram wherever necessary.*

SECTION: A

Q1) Answer any FIVE of the following (5/6)

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1. What are non-alcoholic beverages?
2. Define nutraceuticals.
3. Enlist any two examples of food adulterant.
4. Define API.
5. What is NDA? When it is filed?
6. State the role of WHO.

SECTION: B

Q2) Answer any FIVE of the following (5/6)

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1. What is the role of quality control in food industry?
2. Give any four health benefits of Kombucha Tea.
3. State any two functions of vitamins in human nutrition with suitable example.
4. What is pre clinical trial? State its significance.
5. Explain drug formulation with suitable example.
6. What is FDA? State its role.

[P.T.O.]

SECTION: C

Q3) Answer any TWO of the following (2/4)

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1. What is HACCP? Give its principles.
2. Give an account on biodegradable plastics as a food packaging material.
3. Comment on estimation of LD-50 and its importance.
4. Describe ICH guidelines for quality control.

SECTION: D

Q4) Answer any TWO of the following (2/4)

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1. What are food additives? Give its types with role in food industry.
2. Describe various techniques used for microbiological examination of food sample.
3. Elaborate on different phases of clinical trial and its importance in the process of drug development.
4. Give an account on Indian Pharmacopoeia.