



Sessional I (Even) Semester Examination, March 2025

Roll no.

Name of the Course: B.Pharm

Semester: VI Semester

Name of the Paper: Pharmaceutical Biotechnology

Paper Code: BP605T

Time: 1.5 hour

Maximum Marks: 30

Note:

(i) This question paper contains three sections.

(ii) All sections are compulsory.

Section A

Multiple Choice question

(10 X 1 = 10) Marks

CO1

1. The process of transferring genes from one organism to another is known as:
A) Cloning
B) Gene therapy
C) Genetic engineering
D) PCR (Polymerase Chain Reaction)
2. Which of the following is an application of biotechnology in the pharmaceutical industry?
A) Production of insulin
B) Genetic modification of fruits
C) Extraction of oils
D) Designing of fertilizers
3.Biotechnology is related to medicinal products.
A) Yellow Biotechnology
B) Green Biotechnology
C) Red Biotechnology
D) White Biotechnology
4. Beta lactam ring hydrolysed by
A) Pencillinase
B) Lipase
C) Protease
D) Amylase
5.Sensors are based on the principal of sound of vibration.
A) Optical
B) Piezoelectric
C) Calorimetric
D) Potentiometric



6. Who invented PCR A) Kary Mullis B) Watson C) E.M Southern D) Meselson	CO2
7.seals the cut of two DNA molecules A) Lipase B) DNA Ligase C) Trypsin D) All of the above	
8. An enzyme that cleaves DNA at specific sites A) Restriction endonucleases B) Pepsin C) Protease D) Amylase	
9. The extra-chromosomal circular DNA found in the E.coli is A) Plasmid B) DNA ligase C) Vector D) Cytokinin	
10. The antiviral protein produced by virus infected cells is called A) Insulin B) Auxin C) Vaccine D) Interferon	

Section B

Short Answer questions (Attempt any TWO)

(2X5= 10)

1. What are biosensors explain its working with examples?	CO1
2. Give mechanism of production of Insulin by rDNA technology.	CO2
3. Write about recombinant DNA technology and its applications	CO2

Section C

Long Answer questions (Attempt any ONE)

(1X10=10)

1. Explain Enzyme immobilization, methods and its applications.	CO1
2. Give brief introduction and applications of PCR.	CO2