## B.Sc. 4<sup>th</sup> Semester (Honours) Examination, 2022 PHYSIOLOGY

Course ID: 42514 Course Code: SH/PHY/404/GE-4(T)

**Course Title: Biotechnology** 

Time: 1 Hour 15 Minutes Full Marks: 25

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as pract	ticable.
1. Answer any five questions from the followings:	1×5=5
(a) What do you mean by Cosmid?	
(b) Write any one importance of DNA finger printing.	
(c) What do you mean by gene therapy?	
(d) Mention any one significance of RT-PCR.	
(e) What is therapeutic cloning?	
(f) What do you mean by Northern Blot?	
(g) Write any one enzyme used in PCR.	
(h) What do you mean by neutral media?	
2. Answer any two questions from the followings:	5×2=10
(a) Write down the clinical importance of monoclonal antibody.	5
(b) State the different techniques used in enzyme immobilization. Describe about	t advantages
of enzyme immobilization.	3+2
(c) Discuss in brief the different areas of interest in biotechnology.	5
(d) Briefly describe the process of cloning.	5
3. Answer any one question from the followings:	10×1=10
(a) What is CAT-MAP? Briefly describe the process of hybridoma technique.	2+8
(b) What is cloning vector? Why are they necessary? Describe the cloning vector	
by us.	2+2+6