

Bankura University

ACTIVITY CODE:1903131021

B.Sc. 6th Semester (Honours) Examination, October 2020

Subject: MICROBIOLOGY

Course ID – 62212

Course Code - SH/MCB/602/C-14

Course Title :- Recombinant DNA Technology

Full Marks: 15

Time: 45 mins.

The figures in the margin indicate full marks

Answer all the questions.

UNIT - I

Q1. Answer any five of the following questions.

1×5=5

- a) What is poly linker?
- b) Write the full form of BAC .
- c) What is cosmid?
- d) What is RT-PCR?
- e) Write down the principle of colony hybridization.
- f) What is meant by palindrome?
- g) What is site-directed mutagenesis?
- h) Write down the importance of DNA methylation.

UNIT-II

Q2. Answer any two of the following questions.

5×2=10

- a) What is Recombinant DNA? Write down the method for the preparation of recombinant plasmid DNA . 1+4=5
- b) Write down the process of Southern blotting technique. =5
- c) Write a short note on Bt cotton. =5
- d) Schematically illustrate the steps of PCR technique. =5
- e) Give a short note about the bacterial transformation process. =5