# BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI <br> (END SEMESTER EXAMINATION) 

CLASS: MSc / PRE-PHD BRANCH: BIOTECHNOLOGY

SEMESTER: II / NA
SESSION: SP/2023
SUBJECT: BT417 BIOINFORMATICS
TIME: 3 Hours
FULL MARKS: 50

## INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.4(a) How propensity value can be used for second structure prediction? What is Chau- [5] CO3
Fashman method?
Q.4(b) If an unknown protein structure is provided to you then how structural modelling can
[5] CO3 be used to help?
Q.5(a) What is MEME? Describe about first generation of sequencing.
[5] CO2
Q.5(b) Write the principle and steps of drug designing with flowchart.
[5] CO3
