MASTER OF SCIENCE (BIOTECHNOLOGY) (CBCS-2018 COURSE) M.Sc.(Biotechnology) Sem - III: WINTER: - 2021

SUBJECT: RESEARCH METHODOLOGY

Time: 10:00 AM-11:30 AM Day: Friday Max. Marks: 30 W-19761-2021 Date 4/2/2022 N.B.: 1) All questions are **COMPULSORY**. 2) Figures to the right indicate FULL marks. Answer to both the sections should be written in **SAME** answer book. 2) 3) Draw neat and labelled diagrams WHEREVER necessary. **SECTION-I Q.1** Answer **ANY FIVE** of the following: (05)Define "null hypothesis". a) What is "quantitative type of data"? b) What is the goal of research? What is "literature survey" in research? What are the measures of central tendency? e) What is a scientific paper? **Q.2** Answer **ANY TWO** of the following (10)What is the need for doing research? b) What is sample? What are the characteristics of a sample? c) Explain the different ways of graphical representation of data. **SECTION-II** Q.3 Answer **ANY FIVE** of the following: (05)What is "type I error"? What is the "level of significance"? b) What is the meaning of "bibliography"? What is the purpose of materials and methods? What is "median"? e) What is the meaning of "ethics"? Q.4 (10)Answer ANY TWO of the following What are the functions and responsibility of ethics committee in research? Explain the parametric and non-parametric tests? Explain in detail the distinguishing features of book review, book and book chapter.