

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086
(For candidates admitted from the academic year 2023 – 2024)

M. Sc. DEGREE EXAMINATION, APRIL 2024

BIOINFORMATICS
SECOND SEMESTER

COURSE : ELECTIVE
PAPER : RESEARCH METHODOLOGY, BIOETHICS AND IPR
SUBJECT CODE : 23BI/PE/RM15
TIME : 3 HOURS **MAX. MARKS: 100**

Q. No.	SECTION A (10 x 1=10 marks) All questions to be answered (Objective type)	CO	KL
1	How is random sampling helpful? a) Reasonably accurate b) An economical method of data collection c) Free from personal biases d) All of the above	CO1	K1
2	Regarding the concept of bioethics, which of the following statement is false? a) It has to do only with cloning and euthanasia. b) Bioethics is the same as Medical ethics. c) It has to do with moral dimension of Medical care. d) It has to do with all aspect of Medical care.	CO2	K2
3	The difference between a statistic and the parameter is called: a) non-random b) Probability c) Sampling error d) Random sampling	CO1	K1
4	What types of issues do pilot studies attempt to reduce? a) Systematic error and unexpected problems b) Systematic and non-systematic errors c) Anticipated and unrealistic logistical challenges d) Variation and mistaken errors	CO2	K2
5	IPR protect the use of information and ideas that are of a) Social value b) Moral value c) Commercial value d) Ethical value	CO1	K1
6	Which one among the following statements is false in the context of participatory research? a) It recognizes knowledge as power b) It is a collective process of inquiry c) It emphasizes people as experts d) Its solve purpose is the production of knowledge	CO2	K2
7	The first step of research is: a) Selecting a problem b) Searching a problem c) Finding a problem d) Identifying a problem	CO1	K1
8	The main aim of the scientific method in the research field is to _____ a) Improve data interpretation b) Confirm triangulation c) Introduce new variables d) Eliminate spurious relations	CO2	K2

9	A literature review is a) conducted after you have decided upon your research question b) helps in the formulation of your research aim and research question c) is the last thing to be written in your research report d) is not part of a research proposal	CO1	K1
10	_____ is the conceptual framework in which the research is carried out. a) Research hypothesis b) Synopsis of Research c) Research paradigm d) Research design	CO2	K2
Q. No.	SECTION B (10 x 2= 20 marks) Answers in about 50 words	CO	KL
11	Define Primary Data.	CO3	K3
12	Write a note on Data collection.	CO4	K4
13	Give an account on Proofreading.	CO3	K3
14	Brief the Format of thesis.	CO4	K4
15	Define Punctuations.	CO3	K3
16	Define Ethical Clearance.	CO4	K4
17	Define Bioethics.	CO3	K3
18	Expand GATT.	CO4	K4
19	Expand IBSC.	CO3	K3
20	What is WIPO?	CO4	K4
Q. No.	SECTION C (4 x 10= 40 marks) Answer in about 600 words - Internal choice	CO	KL
21	a) Comment on Research Design OR b) Definition of Research and its Principle	CO4	K4
22	a) Describe about citation, types of citation and their impact on research. OR b) Highlight the facts to be considered during writing for non-native audiences.	CO5	K5
23	a) Elaborate the importance of a pilot study. OR b) Write a note on concept of mind maps.	CO4	K4

24	a) Enumerate the data collection techniques. OR b) Discuss about the tools used for reference management.	CO5	K5
Q. No.	SECTION D (2x 15=30 marks) Answer any TWO questions in about 1200 words	CO	KL
25	Explain a) Bioethics b) IPR c) Patents d)TRIPS	CO5	K6
26	Brief about the software used for paper formatting.	CO5	K6
27	Elaborate the significance of patent and explain basmati, neem and turmeric cases.	CO5	K6
28	Appreciate the importance of writing well. Comprehend the different syntaxes that should be considered when writing well.	CO5	K6
