Time: 2-30 Hours]

2011E711

Candidate's Seat No:_____

M.Sc Sem-3 Examination

501

Toxicology November-2024

[Max. Marks: 70

Q1A	Explain the characteristics of sample documentation. How sample documentation differs in qualitative and quantitative research?	7 Marks
Q1B	Explain the difference between qualitative and quantitative research. OR	7 Marks
Q1A	What are techniques of documentation in research? Give examples of computational methods for documentation.	
Q1B	What are the key techniques of data analysis in qualitative and quantitative research? Explain the graphical methods to be used in quantitative research.	7 Marks
Q2A	List out different parts of research paper. Explain importance of title and abstract in a research article.	7 Marks
Q2B	What is the structure of result in a research paper? Explain in detail. OR	7 Marks
Q2A	List out different reference styles. Name reference management tools and explain any three.	7 Marks
Q2B	What is the importance of presentations? Write down the key skills and structure of presentation.	7 Marks
Q3A	Write down a case study related to the first biotechnology patent: DIAMOND VS CHAKRABARTY CASE	7 Marks
Q3B	Explain Trademarks in detail along with its types, exclusive rights, and limitations.	7 Marks
Q3A	OR Write down the detailed note on patents, including patentable and non- patentable inventions (section 3 exclusions) under the Patents Act, 1970.	7 Marks
Q3B	Define the term "Intellectual Property Rights", and provide a comprehensive overview on IPRs and discuss the different areas covered by IPRs?	7 Marks
Q4A	What are the ethical issues associated with in vivo toxicity testing? Discuss the balance between scientific advancement and animal welfare.	7 Marks
Q4B	Explain the phases of clinical trials, including the design, trial size, and study population.	7 Marks
	OR	
Q4A 	Discuss the significance of both in vitro and in vivo toxicity models in preclinical testing.	7 Marks
)4B	Explain the different Biosafety Levels (BSL) — BSL1, BSL2, and BSL3. How are these levels categorized?	7 Marks
Q 5	Answer the following questions (Any Seven)	14 Marks
	Give two examples of subjects that follow qualitative research methodology.	2 Marks
I	Write down four differences in inquiry form for qualitative v/s quantitative research.	2 Marks

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III	Give example of two error sources in qualitative and quantitative research.	2 Marks
IV	What is "errata"? What is the importance of it?	2 Marks
V	Here is the citation of a research article in APA format "Motile, P. (2020, December). Expression of IDI in Dhatura plant. <i>Biochime</i> ." What is the name of the article and name of the journal from this?	2 Marks
VI	What is DOI number of a paper? Which reference style is most used in biological research?	2 Marks
VII	Write down two limitations of copyrights.	2 Marks
VII	Write down the types and subtypes of patents.	2 Marks
IX	What is TM, SM and ® in respect to trademarks?	2 Marks
X	Define BSL1 and give one example of when this biosafety level is used.	2 Marks
XI	What is the purpose of clinical trials in drug development?	2 Marks
XII	What factors are considered when determining the size and population of a clinical trial?	2 Marks

BEST OF LUCK