

SET-A

Roll No: _____

JAMIA HAMDARD

Department of Biochemistry
School of Chemical and Life Sciences

M.Sc. BIOCHEMISTRY EVEN-SEMESTER (II) EXAMINATION, MAY 2025

Paper Code: MBC 206
(LABORATORY ANIMAL SCIENCES)

Time: 1½ h

Max Marks: 30

Note: This paper has 3 Sections, A, B, and C. Attempt all three sections. Section A: Answer all the questions; Section B: Answer any one; Section C: Answer all the questions, each question in this section has an internal choice .

Abbreviations Used: CLO- Course Learning Outcome, PLO- Program Learning Outcome, BTL- Bloom Taxonomy Level: BT level 1- Remember; BT level 2-Understand; BT level 3-Apply; BT level 4-Analyse; BT level 5-Evaluate, BT level 6-Create.

SECTION A

Attempt All Questions

(5x 1 = 5 Marks)

Q No. 1	OBJECTIVE QUESTIONS (Do as directed)	BTL	CLO	PLO
i.	What does CCSEA stand for?	3	2	3
ii.	A common site for intravenous injection in mice is: A. Tail vein B. Ear vein C. Femoral artery D. Jugular vein	2	3	3
iii.	AAALAC stands for: A. American Association for Animal Law and Care B. Association for Advancement of Animal Learning and Care C. Association for Assessment and Accreditation of Laboratory Animal Care D. Allied Association for Legal Animal Care	1	1	2
iv.	Which organization monitors animal experimentation in India? A. WHO B. CCSEA C. FDA D. NIH	1	2	3

v.	Which of the following is an alternative model organism used in genetic and developmental research? A. Rabbit B. <i>C. elegans</i> C. Dog D. Guinea pig	3	3	2
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SECTION BAnswer ANY ONE of the following questions

(1 x 10 = 10 Marks)

Q. No	LONG ANSWER QUESTIONS	BTL	CLO	PLO
2				
a)	Describe the composition, duties, and responsibilities of the Institutional Animal Ethics Committee (IAEC).	3	4	2
b)	Describe the various methods of anesthesia, analgesia, and euthanasia in rodents.	1	3	3

SECTION CAttempt ALL questions

(each question has an internal choice)

(3 x 5= 15 Marks)

Q No.	SHORT ANSWER QUESTIONS (Write Short Notes)	BTL	CLO	PLO
3				
a)	What is the composition of CCSEA/ OR Describe the role of IAEC in animal experimentation.	4	4	2
b)	What is meant by "humane endpoints" in animal experimentation/ OR Name any two alternatives to animal use in biomedical research.	2	3	3
c)	List any two normal behaviors observed in rodents/ OR What is the purpose of genetic monitoring in laboratory animals?	3	2	3

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END OF THE QUESTION PAPER

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