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FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA Department of Medical Laboratory Science Year End Examination-Year 3-2018

7th Batch – Animal Research- SEQ

Answer all questions.	Index Number:		
1.0 1.1 Briefly explain the	e 3Rs in relation to ethical use of animals in	n experimentation. (Marks 15)	
1.2 State three accep animals. (Marks	ted ethical guidelines that a researcher sh	ould follow in experiments involvi	
		с. Х.	
1.3 State four factors	that can be considered in grouping of anir	mals in experiments. (Marks 8).	
1.4 State four charac	teristic features of an analgesic agent. (M	Iarks 16)	
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State the importance	of a pre-anaesthetic a	gent. (Marks10)	
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Comment on the follo	wing regarding housing	a of miss is seen	
	wing regarding nousin	ig of fince in an ani	mal house. (Marks 15).
Micro environment :			
Enrichments :	•		
			£.
Macro environment			

1.7 Briefly explain how the animals are transported from one place to another. (Marks 15).

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State three main areas and two uses of the mentioned areas each in an animal research facility. 1.8 (Marks 15).

	Area	Uses			
	1.	1			
		2			
	2.	1			
		2			
	3.	1			
		2			
		(2			
2.1	Mention briefly why we use animals ir				
2.2	What can be used as alternatives to la	boratory animals? (Marks 15)			
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2.3	When testing a new drug, can research findings from animal experiments be extrapolated to				
	humans? Briefly explain your answer. (Marks 10).			
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2.4	Why are mice considered as the most commonly used research animal in experiments? (Marks
2.5	List the steps involved in feeding a substance orally to a mouse. (Marks 15).
2.6	Which organs are harvested in a toxicity study for histopathological evaluation? (Marks 10).
2.7	What are the main phases of the estrus cycle of a mouse? (Marks 15).
2.8	What is the importance of the mating plug in mice? (Marks 10).
2.9	What is postpartum estrus? (Marks 5).

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