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**ZOH 451** 

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## Second Semester M.Sc. Examination, September/October 2022 (CBCS) ZOOLOGY Animal Cell Biotechnology

ZOOLOGY Animal Cell Biotechnology	
Time: 3 Hours  Max. Marks: 7	70
Instructions: 1) Answer all questions. 2) Give illustrations wherever necessary.	
I. Write short notes on : (5×2=1	0)
a) Vertical laminar flow hood	
b) Subculture of monolayer	
c) Feeder layer	
d) Transfection	
e) Bt-toxin.	
<ul> <li>II. a) Give an account of essential and useful equipments required for the culture of animal cells.</li> <li>OR</li> </ul>	12
<ul> <li>b) Describe the different type and utilities of culture media for animal cell culture.</li> </ul>	
III. a) Discuss on the evolution of cell lines with a note on their maintenance.  OR	12
<ul> <li>Give an account of types of primary culture techniques and their disaggregation of tissue isolated for primary culture.</li> </ul>	
	ls. <b>12</b>
OR	
b) Describe the production of monoclonal antibodies and their applications.	
V. a) Describe the salient features and types of cloning vectors.  OR	12
<ul> <li>Describe recombinant DNA technology and add a note on its application in medicine and industry.</li> </ul>	
VI. a) Elaborate on the methods of introduction of desired genes into animal cells.	

OR

b) Discuss the transgenic technology in improvement of farm animals.

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