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SUBJECT CODE NO: - SS-6624 / SS-6625 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Zoology) (Sem-IV)

Examination May / June – 2023

Elective Paper Animal Tissue Culture ZOO-404 (A) / Virology and Epidemiology ZOO-404 (B)

[Tin	ne: 3:00 Hours]	25,0	307 307	[Max. Ma	rks:8	
	Please check wh	hether you h	ave got the right question	on paper.		
N D	1) DO	LIALia Comm	wlooms 5	94 PA		
N. B	 Part 'A' is Compulsory Attempt any five question from part 'B' 					
	(3) Dra	w neat & we	ll Labelled diagrams w	herever necessary.	\$7.7 \$7.7	
		PA	RT-A			
Q1	Attempt the following multiple	e choice que	stions.	25	20	
	1. The growth of animal cells in vitro in a suitable culture medium is called					
			sgenesis			
	c) Plant tissue culture		nal cell culture			
		y 29'				
	2. Name the type of culture which is prepared by inoculating directly from the tissue of					
	an organism to culture media?					
	a) Primary cell culture		ndary cell culture	\$ 69		
	c) Cell lines		sformed cell culture			
		200	Ro F			
9	3. What is a cell line?		26°	3		
	a) Multilayer culture		b) Transformed ce	ells		
	c) Multiple growth of cells		d) Sub culturing of primary culture			
				1 7		
	4. Name the organism on which	ch first cell li	ne was observed?			
7	a) E.coli b) She		c) Mouse	d) Drosophila		
	B. B. B.			, 1		
	5. Which of the following is the	ne characteri	stics of a normal cell?			
a) Anchorage independent			b) Continuous cell	lines		
Z,	c) Dependent on external growth factor		d) No contact inhibition			
	6. Name the cell line of the human embryonic lung?					
	a) HeLa b) WIS		c) L	d) MRC-5		
S			,	,		
	7. Which of the following is N	OT the part	of growth medium for	animal culture?		
	a) Starch b) Serv		c) Carbon source	d) Inorganic salt	ts	
	87 S2 S2	RO	1	,		
		7	1			

	b) Stimulate cell growth d) Provide transport proteins			
c) Enhance cell attachment				
	2 3	16		
	6,			
c) John Ellerman	d) Frederick Twort	3		
10. Which of the following phase determine	s the specificity of the viru	s? 5		
a) Uncoating b) Release				
	37 3			
PAI	RTB ST	2007		
Explain advantages of tissue culture, limitat	ions and biology of culture	d cells.	12	
W1			3	
What is primary cell culture? Describe the d	ifferent types of primary co	ell culture.	12	
Describe microbiological safety methods ca	hinets and human hionsy m	nethod	12	
Describe interoblological safety methods car	omets and numan olopsy n	Bulleting.	12	
Write in detail lytic and lysogenic and chron	nic life cycles.		12	
	PL DE TOL			
Give an account of general properties of Viruses, structure of Viruses.				
Describe recognition of infectious diseases i	n population and mode of	transmission.	12	
	By By			
Describe taxonomy of vertebrates viruses-H	IV & SARS.		12	
	a) Promotion of tuber and bulb formation c) Enhance cell attachment 9. Who is the father of Virology? a) Martinus Beijerinck c) John Ellerman 10. Which of the following phase determine a) Uncoating b) Release PAF Explain advantages of tissue culture, limitation What is primary cell culture? Describe the describe microbiological safety methods call Write in detail lytic and lysogenic and chronic Give an account of general properties of Virological services of the company of the properties o	c) Enhance cell attachment d) Provide to 9. Who is the father of Virology? a) Martinus Beijerinck b) Dmitri Ivanovsky c) John Ellerman d) Frederick Twort 10. Which of the following phase determines the specificity of the viru a) Uncoating b) Release c) Attachment PART B Explain advantages of tissue culture, limitations and biology of culture what is primary cell culture? Describe the different types of primary composed by the detail lytic and lysogenic and chronic life cycles. Give an account of general properties of Viruses, structure of Viruses.	a) Promotion of tuber and bulb formation c) Enhance cell attachment b) Stimulate cell growth d) Provide transport proteins 9. Who is the father of Virology? a) Martinus Beijerinck b) Dmitri Ivanovsky c) John Ellerman d) Frederick Twort 10. Which of the following phase determines the specificity of the virus? a) Uncoating b) Release c) Attachment d) Penetration PART B Explain advantages of tissue culture, limitations and biology of cultured cells. What is primary cell culture? Describe the different types of primary cell culture. Describe microbiological safety methods cabinets and human biopsy method. Write in detail lytic and lysogenic and chronic life cycles. Give an account of general properties of Viruses, structure of Viruses. Describe recognition of infectious diseases in population and mode of transmission.	