

School of Science School: Master of Science Program/s: Semester: 3rd Year: 2nd

End Semester examination Examination:

December- 2022 Examination year:

Course Name: Molecular Diagnostics Course Code: DIG301

Total Marks: 40 Date: 06/12/2022 Total Pages: 02 Time: 08:30 to 10:30 am

Q.		Details	Marks	COs	BTL
No.				COL	BTLI
	A. Choose the correct answer.		10 M	CO1	BTL2
Q.1				CO3	BTL3
	is a key characteristic of an antigen.			CO4	
	II V. Samonea	b. possess antibody binding		CO5	
	a. eliciting immune response	domain			
	c. posses unique structure	d. all of the above			
	2is an additional component in the structure of IgM and IgA.				
		bSH bonds			
	a. amino acid side chain	d. None of the above			
	c. J-chain	d. None of the above			
	3is an antigen binding domain in an antibody structure.				
	a. Fab domain	b. Fc domain			
	c. both a and b	d. None of the above			
	4is the principle behind studying immunocytochemistry.				
	a antigen-antibody interaction	b. antigen type only			
	c. antibody type only	d. None of the above			
	5. Serodiagnosis measuresin the blood to confirm the degree				
	of infection.	b. antibody			
	a. antigen	d. None of the above			
	c. titre of epitope	d. None of the doore			
	6 media is/are generally used in microbial diagnosis				
	a. Nutrient agar	b. Chocolate agar			
	c. Blood agar	d. All of the abve			
	7antibodies are specific to one antigen epitope				
	a. polyclonal antibodies	b. monoclonal antibodies			
	c. both a and b	d. None of the above			

	8.The full form od ELISA isa Enzyme Linked Immunoabsorbent Assay	b. Enzyme Leached Immunosorbent Assay			
	c Unzyme Linked Immunosorbent analysis	d. none of the above			
	9,is for quantititative measurement of antigens				
	a. RIA c. direct eliza	b. RIE d. all of the above			
	10 is for quantititative measurement of antibodies				
	a. RIA c. indirect eliza	b. RIE d. None of the above			
Q-2	Answer any 6 from below.		30 M	CO1	BTL1 BTL2
	 Provide a comparative list of direct and indirect ELIZA methods. 			CO3	BTL3
	Provide advantages of rocket immunoelectrophoresis over radial impression.			CO4	
	diffusion assay.			CO5	
	3. Enlist key types of immunoglobulins found in humans. 4. What is the importance of sampling type in a discount.				
	and importance of sampling type in a diagnosis process?				
	a sementatic diagram of infillunocytochemistry process				
	 Provide a comparison between gram positive and gram negative bacteria based on their cell membrane and cell wall composition. 				
	7. Write a short note on the role of R	cen wan composition.			

*************End of Question Paper********