PARUL UNIVERSITY FACULTY OF MEDICINE DEPARTMENT OF PARAMEDICAL AND HEALTH SCIENCES B.Sc. Med. Sci. April-2023 Examination

Semester: 2Date: 12/04/2023Subject Code: 19100209Time: 10:00 amSubject Name: MicrobiologyTotal Marks: 70		ate: 12/04/2023	
		Гіте: 10:00 am to 1:00 pm	
		Fotal Marks: 70	
Instruction	ns:		
1. All ques	tions are compulsory.		
2. Figures	to the right indicate full marks.		
	itable assumptions wherever necessary.		
4. Start nev	w question on new page.		
Q.1(A):	Answer the following questions in details (2 out of 3) (Each worth		
	(i) Write down the morphology, cultural characteristics and laboratory	diagnosis of	
	Mycobacterium.		
	(ii) Write a note on Lysogenic and Lytic cycle of Bacteriophage.(iii) Explain bacterial growth curve with diagram. What happens when	a culture is	
	transferred from a rich to poor medium?		
Q.1(B):	Answer in short (5 out of 7) (Each worth 1 marks)	05 marks	
X ·-(2)·	(i) Write the functions of phagolysosomes.		
	(ii) Write down the examples of coliform.		
	(iii) Name the scientist who discovered gram staining.		
	(iv) Define Starvation proteins.		
	(v) What is the use of autoclave?		
	(vi) Name four bacteria causing dysentery	1 11 11	
	(vii) Give one word for uniform distribution of flagella around bacteria		
Q.2(A):	Write short notes on any of the following (3 out of 5) (Each worth	5 marks) 15 marks	
	(i) Explain the diagnosis of Sars-CoV-2.		
	(ii) Explain the normal microbiota of skin & large intestine.		
	(iii) Difference between active and passive immunity.		
	(iv) Write a note on disease caused by Salmonella typhi.		
	(v) Write a note on Adaptive Immunity.		
Q.2(B):	Answer in short (5 out of 7) (Each worth 1 marks)	05 marks	
	(i) Difference between selective and differential media		
	(ii) Name the Antibody that gets secreted in tears.		
	(iii) Name the enzyme group predominantly present in lysosomes.	11 - 19	
	(iv) What is the process that generates different types of Antibodies ca(v) What is the full form of MHC?	lifed?	
	(v) What is the full form of Mile? (vi) What components constitute the outer membrane of gram negative	hacteria?	
	(vi) Define chemotaxis.		
Q.3:	Write a detailed note on the following (2 out of 3) (Each worth 7.5	marks) 15 marks	
2.01	(i) Write a note on Innate Immunity in detail.		
	(ii) Define enzyme and their types. Also explain the enzyme mechanis	m.	
	(iii) Explain the process of Viral Multiplication (Replication) with labe		
Q.4:	Write short notes on any of the following (3 out of 5) (Each worth	5 marks) 15 marks	
	(i) Define zoonosis and write two examples of zoonotic disease with a	etiological	
	agents.		
	(ii) Draw the structure of all 5 Immunoglobulins with labels.		
	(iii) How do Koch's postulates ensure that cause and effect of a given	disease are	
	clearly differentiated?		
	(iv) Write a short note on hospital acquired infections and its prevention)[]	
	(v) Explain Hematopoesis.		