SARDAR PATET UNIVERSITY B. Sc. Semester- III Examination, JANUARY - 2021 SUBJECT: MICROBIOLOGY Subject code: US03CMIC21 (Elements of Microbiology - I)				
DATE: 5-01-2021	TIME: 2:00 PM TO 1	∤:00 PM	TOTAL MARKS: 7	70
Q-1 Select the Right	answer		· ·	راه
 a. Discovered phage 	lement fixation reaction and the section of the sec			
Paul Ehrlich B. Elie Metchnikoff Joseph lister Antoine van Leet	uwenhoek			
3. In classification,a a. Kingdom b. O	i group of similar division rder c. Family d. No	are placed in one_ one of these		
4. As per Whittake a. Monera b. Pro	r's five kingdom classifica itista c. Plant d. No	ition, fungi is classi ne of these.	fied in	
5. The bacterial ce a. Reproduction c. Motility		e for its	·	
6. A film of a speci a. Smear c. Coating				
7. In Bacteria a. Cell membrane c. Pili		r permeability of che	emicals.	
8. Flagella are ma a. Flagellin c. Globulin	b. Albumin d. Pilin	rotein		, F
 Bacteria consis Lophotrichous Peritrichous 	iting of a single polar flag b. Ambhitrichous d. Monotrichous	,	<u> </u>	

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No. of Printed Pages : 2

10. The eyepiece of the microscope provides magnification of a. 40X b. 20x c. 10X d. None ofthe above

Q-2 Fill in the blanks with appropriate word.	√08 7
Smallpox vaccine was discovered by	
2. Congored is an example of dvo	
3. The chemical nature of bacterial capsule is	
IS SCIENCE of higherical classification	•
H. Schroder and T. Van Dusch used flasks containing heated broth	
flasks containing heated broth.	_to pass germ free air into
Presence of barrier filter & exciter filter are special features Strain derived from single parent cell are known as	
	s or microscopy.
8. Basic taxonomic group is known as	
5 - Spire William as	
Q-3 Answer the following in brief (Any Ten)	
	F207
1. Define pure culture.	
2. Write the contribution of Antony van Leeuwenhoek.	
Draw a labelled diagram of typical bacterial cell.	
4. Explain the roll of decolourizer in Gram staining. 5. What is pili?	
6. Write the functions of cell membrane.	
7. Enlist different types of bacterial flagellar arrangement.	
8. Define: Resolving power and magnification.	
9. Explain: Numerical aperture.	
10. Enlist name of kingdom included in Haeckel's classification.	
in virial is Nomen clature? Give its advantage	
12. Enlist name of divisions included in Bergey's manual.	•
Q-4 Answer the following questions (Any Four)	
	(32)
Explain experiments that supports biogenesis concept.	
2. Explain germ theory of disease.	
3. Describe the ultra-structureand function of bacterial flagella.	
T. Explain difference between Gram +ve and Gram -ve heatering	l cell wall
o. Explain in detail about Gram staining	
6. Explain difference between light microscopy and electron microscopy	roscopy
. Describe major characteristics used for classification of boots	
8. Discuss in detail genetic methods used for classification of bacter	ecteria
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