(i)	Pr	rinted Pages: 3 Roll No	•••••							
(ii)	Q	uestions :9 Sub. Code: 1 0 4	8	8						
		Exam. Code: 5) 0	2						
The CALL (EVIID) and Competer										
Bachelor of Arts (FYUP) 2 nd Semester (2055)										
BIO-TECHNOLOGY										
Paper: General Microbiology										
Time Allowed: Three Hours] [Maximum Marks: 45										
.	45.	Au EINE mestions in all including O. N	6 1 W	hich						
Not	te :-	 Attempt FIVE questions in all, including Q. N is compulsory and selecting TWO questions 								
		Unit-I and Unit-II.	Cucii							
	_									
1.	Exp	plain the following:								
	(a)	Resolution		2						
	(b)	Chemotaxis		2						
E -	(c)	Lag phase		2						
	(d)	Ectoparasites		2						
	7	HEPA filters		2						
				_						
	(f)	Mutualism		2						
h	(g)	Virion		1						
				963						

UNIT-I

2.	(a)	Discuss the key contributions of Louis Pasteur and Robert
		Koch to the development of microbiology. 4
	(b)	Describe the working principle and components of a compound microscope.
3.	(a)	Compare and contrast the cell wall structures of Gram- positive and Gram-negative bacteria.
	(b)	List the various types of bacterial flagellar arrangements along with an example.
4.	(a)	Name all the structural components of a fungal cell along with their functions.
	(b)	Differentiate between yeast and mold in terms of morphology.
5.	(a)	What are the basic structural components of a virus?
	(b)	Explain how a virus multiplies using the lytic cycle. 4 UNIT-II
6.	(a)	What is pasteurization, and how does it help in food safety?
	(b)	List various types of physical agents used to kill microbes.

7.	(a) Explain how UV radiations are used for microbia		
			4
	(b)	What are antiseptics, and how are they different fro	om
		disinfectants?	4
8.	(a)	Name some common bacteria found in the human sl	cin

- microbiota. 4
 - (b) Name two bacterial and two viral diseases in humans along with their causative agents. 4
- (a) Explain the following terms: Virulence, Opportunistic 9. pathogens. 4
 - (b) What is antibiosis, and how does it differ from symbiosis?