Paper / Subject Code: 69004 / Microbiology

	Time: 3 Hours	70) ()
Q.1 A	nswer the following	300
	a. Explain scope of Pharmaceutical microbiology	1
	b. Define and give significance of Thermal Death Point	1
	c. Draw a diagram of bacterial spore	1
	d. Name the causative agent of tetanus	34
	e. Name the media used for sterility testing	1
	f. Define numerical aperture	4
	g. Explain the term Retroviruses	1
	h. Explain Biological Indicators & give two examples	2
	i. Name any two protozoan infections with the causative agent	2
	j. Name any two chlamydial infections with the causative agent	2
	k. Write functions of flagella and pilli	2
Q.2	a) Explain dark field microscopy using a neat labelled diagram with its applications	4
	b) Discuss dry heat sterilization with respect to method, the mechanism of action	
	and applications	4
	c) Explain different methods of preservation of bacteria	3
Q.3	a) Draw a diagram of	
	i) Chick embryo cultivation of viruses	
	ii) Lytic cycle of bacteriophage	4
	b) Discuss in detail phenol coefficient test of disinfectant evaluation	4
	c) Distinguish between bacteria and viruses	3
Q.4	a) Explain pure culture techniques for isolation of bacteria	4
	b) Discuss in detail infections caused by rickettsia	4
	c) With suitable example explain selective media	3
Q.5	a) Discuss in detail gaseous sterilization	4
	b) Write a note on alcohol as a disinfectant	4
	c) Explain commercial uses of algae	3
Q.6	a) write a note on identification of bacteria on the basis of morphological characteristics	4
	b) Explain phases of bacterial growth cycle	4
	c) Explain the principle of Gram staining technique	3

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