Q.P. Code :10995

	[Time: 2.30 Hours]	[Marks:60]
	Please check whether you have got the right question paper. N.B: 1. Answer all five questions 2. All questions carry equal marks. 3. Draw neat & labelled diagrams where necessary.	
Q.1	Describe in detail the structure and composition of the bacterial cell walls.	12
Q.1 a.	OR Explain the effect of various environmental factors on microbial growth.	06
Q.1 а. b.	Describe the mode of action and resistance to antibiotics citing any two examples.	06
Q.2	Give an account of the alternate pathway of the complement and add a note on its regulation. OR	12
Q.2	Write briefly on:	
	a. Rheumatoid arthritis.	06
	b. Phage display.	06
Q.3	Explain ammonia and nitrate uptake add a note on its metabolism. OR	12
Q.3	Write short notes on:	
	a. Pollen self-incompatibility.	06
	b. Biosynthesis of ethylene and its functions.	06
Q.4	Describe:	
	i. Floral development in plants.	06
	ii. Viral infections of plants.	06
Q.4	Give an account of:	
	a. Plant response to salt stress.	06
	b. Hypersensitive reactions.	06
Q.5	Write short notes on any three:	12
	a. Purple and green bacteria	
	b. Methanogens	
	c. Primary and secondary immune modulation	
	Conspleen Constant and Constant	
	e. Double fertilization	
	f. Programmed cell death in plants	