Q.P. Code : 19273

	[Time: : $2\frac{1}{2}$ Hours]	[Marks:75]
	 Please check whether you have got the right question paper. N.B: 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Draw neat labelled diagrams wherever necessary. 	
Q.1.	 Attempt any two of the following : a. Give an account of sexual reproduction in <i>Vaucheria</i>. b. Describe the thallus structure and the cystocarp in <i>Batrachospermum</i>. c. Explain the mode of sexual reproduction in Pinnate diatoms. d. Describe the thallus of <i>Polysiphonia</i>. 	15
Q.2.	 Attempt any two of the following : a. Describe the basidiocarp of <i>Agaricus</i>. b. Explain the macrocyclic life cycle of <i>Puccinia</i>. c. Describe the mycelial characters and asexual reproduction in <i>Alternaria</i>. d. Give an account of sexual reproduction in Homobasidiomycetes. 	15
Q.3.	 Attempt any two of the following : a. Describe the disease cycle of Tikka disease. b. Describe the causal organism and symptoms of damping off disease. c. What are symptoms of Tikka disease? Add a note on its control measures. d. State the symptoms and control measures of loose smut of Jowar. 	15
Q.4.	 Attempt any two of the following : a. State the general characters of Algae and Protozoa. b. Write a detailed note on colony characters exhibited by bacteria and fungi. c. Explain the principle and protocol for double staining. d. Enumerate and explain the steps involved in the commercial production of Penicillin. 	15
Q.5.	 Attempt any three of the following : a. Systematic position of <i>Polysiphonia</i>. b. Cell structure of <i>Pinnularia</i>. c. Phragmobasidum. d. Control measures of damping off disease. e. Dry heat sterilization. f. Endospore staining. 	15