MODEL PAPER 2014 SEM II PAPER I MICROBIOLOGY

Max marks 50

1	Discuss in detail the structure of glucose OR	10
	Explain the Watson and Crick model of Structure of DNA	
2	Explain two methods for determination of nutritional requirement OR	10
	Discuss the different physical conditions for growth	
3 A B C D	Give the biological significance of glucose Write short note on tertiary level of protein Give difference between selective and differential media Give difference between synchronous and continuous culture OR Explain the structure of Sucrose	10
F G H	Write short note on mRNA Give the role of peptone in media Write short note on Breed's method	
4 A B C D E F G H	Write short note on homopolysaccharide Give difference between purines and pyrimidines Give difference between agar and peptone Write short note on logarithmic phase of growth OR Write short note on prostaglandins Write short note on peptide bond theory Classify bacteria on the basis of carbon requirement Give the mathematical expression of growth	10
5 A B C D E F G H	ANSWER ANY 10 Draw the structure of Lactose Draw the structure of Raffinose What is chitin? Draw the structure glycine Give example of hydroxyl amino acids Give function of tRNA What is the mode of reproduction in bacteria? Give one similarity between maximum stationary phase and survival phase	10
I J K L	Define generation time If the exponential growth rate constant is 2 doublings/hour, find the generation time Draw the diagram of turbidostat What are microaerophilic bacteria?	