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Con. 8631-13.

S.E Bio Tech ((BSGS) Micro Biolosy

(3 Hours)

[Total Marks: 80

N.B. :	(1)	Question No. 1	o. 1 is compulsory.
	(2)	Solve .	

- (2) Solve any three questions out of remaining questions.
- (3) Draw suitable diagram wherever necessary.
- Attempt any four out of six (Short notes):-
 - (a) Cell wall of gram -ve bacteria
 - Passive Diffusion
 - (c). Thermal Death time
 - (d) Role of microorganism in food industry.
 - Turbidostat
 - Koch's Postulates.
- (a) "Streak plate method helps in isolating pure Colonics of microorganism". Justify. 10
 - (b) Explain the replication cycle of viruses.
- (a) Explain in detail about antibiotics and various antibiotic targets of bacterial cells. 3. 10
 - (b) Give a description about bacterial cell. Support your answer with a diagram. 10
- What are bacterial toxins? Explain mode of action of cholera toxin. 4.
- (b) "Uptake of nutrients by cell is possible by different means". Justify this statement. 10 10
- Write a note on nutritional requirement for bacterial growth. 10
 - Differentiate between Radiation and Filteration.
- Write a note on antimicrobial sensitivity test. 10
 - Explain the role of microorganisms in biochemical transformation of Carbon Compounds. 10