

S.E. BioTech - Sem-III - CBSGS → Microbio.

02 DEC 2014

QP Code :14621

[Total Marks : 80

(3 Hours)

Sub: Microbiology (21)

- N.B. (1) Question No.1 is Compulsory.  
(2) Solve any three question out of remaining questions.  
(3) Draw suitable diagram wherever necessary.

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Q.1- Attempt any Four out of Six (Short Notes):-

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- (a) Cell Wall of gram -ve bacteria
- (b) Aerobic Microorganism
- (c) Thermal Death Point
- (d) MPN Test
- (e) Turbidostat
- (f) Koch's Postulates

Q.2 (a) "Streak Plate method helps in isolating pure colonies of Microorganism" - Justify.

10

(b) Explain Replication Cycle of Virus

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Q.3 (a) Write a note on epidemiology of infectious diseases.

10

(b) Give Description about bacterial Cell. Support your answer with diagram.

10

Q.4 (a) Describe the various methods for preserving the microbial culture.

10

(b) Explain different phases of growth with suitable diagram

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Q.5 (a) Indicate the various toxic derivatives of oxygen and explain how aerobic organisms might protect themselves against those derivatives?

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(b) Differentiate between Radiation & Filtration methods

10

Q.6 (a) Write a note on antimicrobial sensitivity test.

10

(b) What are the essential components of bacteriological media? Explain chemically defined and complex media with suitable examples.

10