

Total No. of Questions : 4]

P639

SEAT No. :

[Total No. of Pages : 2

[5215]-460

T.Y.B.Sc.

**MICROBIOLOGY**

**MB-342 : Genetics and Molecular Biology-II  
(2013 Pattern) (Semester-IV) (Paper-II)**

*Time : 2 Hours]*

*[Max. Marks : 40*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *All questions carry equal marks.*
- 3) *Draw neat labelled diagrams wherever necessary.*
- 4) *Figures to the right indicate full marks.*

**Q1) A) Attempt the following : [5]**

- a) Define - Conditional lethal mutants.
- b) Define - Contransduction frequency.
- c) F plasmid integrated with the bacterial chromosome at a specific site is denoted as an \_\_\_\_\_.
- d) In *S. pneumoniae* competence development occurs due to the production of \_\_\_\_\_ factors.
- e) State True or false - All phages which mediate generalised transduction are temperate.

**B) Match the following : [5]**

- | A                       | B                               |
|-------------------------|---------------------------------|
| a) $\lambda$ dgal       | i) rII mutants                  |
| b) Benzer               | ii) Lytic cycle                 |
| c) F' conjugation       | iii) Phage with bacterial genes |
| d) Virulent phage       | iv) Specialised transduction    |
| e) Transducing particle | v) Sexduction                   |

**Q2) Write short notes on (any two). [10]**

- a) Role of Translesion polymerases in DNA repair.
- b) c DNA library.
- c) Gene mapping by Transformation experiments.

**P.T.O.**

# Microbial And Molecular Geneticsandhra University

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