

V.P & R.P.T.P SCIENCE COLLEGE
MICROBIOLOGY - T.Y.B.Sc
USO6CMIC01
INTERNAL TEST

DATE : 10/03/2014

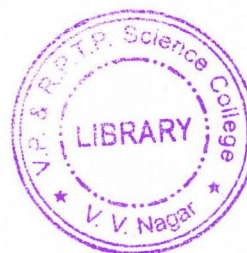
Time : 3:30 p.m to 5:00 p.m

TOTAL MARKS : 30

Note: Figures on the right indicate marks

Que :1 Attempt the following short questions: (Any three) (06)

- i) Define :
a) Transversion mutation b) Missense mutation
- ii) Give contribution of :
a) Fred Griffith b) J . & E. Lederberg
- iii) Write the role of : Rec A protein
- iv) Explain the discovery of Transduction.
- v) Define :
a) Competence b) Mutagen
- vi) Explain photoreactivation.



Que: 2 Describe Fluctuation test and mention its significance. (08)

OR

Que: 2 Explain a) The method of isolation of auxotrophs. (04)

b) The mode of action of U.V radiation. (04)

Que: 3 Explain excision repair mechanism of DNA repair. (08)

OR

Que:3 a) Describe Ame's test. (05)

b) Differentiate between Homologous and Non homologous recombination. (03)

Que: 4 Explain the mechanism of transformation in *Streptococcus pneumoniae*. (08)

OR

Que: 4 Describe generalized transduction as a mode of gene transfer citing a suitable example. (08)

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