

Pre. Ph.D. Course Work (2017 Course) : SUMMER - 2018

(Microbiology)

SUBJECT : PAPER – II : RECENT ADVANCES IN MICROBIOLOGY

Day : Tuesday

Time : 10.00 AM TO 01.00 PM

Date : 26/06/2018

S-2018-4755

Max. Marks : 100

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Draw neat and well labelled diagrams wherever necessary.
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Q.1 Describe scanning tunneling microscopy with its principle and applications in microbiology. (20)

Q.2 Describe principle and applications of High Performance Liquid Chromatography. (20)

Q.3 Answer the following: (20)

- a) Justify : Spectrophotometer is a sophisticated type of colorimeter
- b) What is fluorimetry? Describe fluorimeter and its applications.

Q.4 Describe different techniques of site-directed mutagenesis with their applications. (20)

Q.5 Answer the following: (20)

- a) Describe principle and applications of radio-immunoassay.
- b) Describe principle and applications of GCMS.

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