

NS – 337

I Semester B.Sc. Examination, November/December 2016

(Semester Scheme)

(CBCS – F/R)

MICROBIOLOGY – I

Basic Microbiology

Time : 3 Hours

Max. Marks : 70

Instruction: Answer all the Sections.

SECTION – A
BMSCW

I. Write brief notes on the following :

(5×2=10)

- 1) Animolecules
- 2) Tyndallization
- 3) Phase contrast microscope
- 4) Rf – value
- 5) Basic stains.

SECTION – B

II. Answer any four of the following :

(4×5=20)

- 6) Describe any two branches of microbiology.
- 7) Describe the working principle of compound microscope.
- 8) Write a note on spectrophotometer.
- 9) Discuss radiation in sterilization.
- 10) Explain mode of action of antimicrobial agents.

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SECTION - C

(3x10=30)

III. Answer any three of the following :

- 11) Explain gram staining and endospore staining.
- 12) Discuss different types of chemical sterilization methods.
- 13) Describe the working principle, construction and application of TEM.
- 14) Describe the mode of action of penicillin and cyclohexamide.
- 15) Explain the important contribution of Louis Pastuer and Robert Koch.

BMSCW

SECTION - D

(10x1=10)

IV. Answer in one line only :

- 16) MIC
- 17) Magnification
- 18) HEPA filters
- 19) Nystatin
- 20) Seitz filter
- 21) Microbicidal agents
- 22) TLC
- 23) Methylene blue
- 24) Phycology
- 25) Incineration.

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