

SN - 382

I Semester B.Sc. Examination, Nov./Dec. 2017
(Semester Scheme) (CBCS - F+R)

MICROBIOLOGY - I
Basic Microbiology

Time : 3 Hours

Max. Marks : 70

- Instructions :** 1) Answer all the Sections.
2) Draw diagrams wherever necessary.

SECTION - A

I. Write brief notes on the following :

(5×2=10)

- 1) Beer Lamberts Law
- 2) Pasteurization
- 3) Acidic stain
- 4) Naledexic acid
- 5) Virology.

BMSCW

SECTION - B

II. Answer any four of the following :

(4×5=20)

- 6) Give an account of Alexander Flemming's contribution to the field of Microbiology.
- 7) Explain the technique of paper chromatography.
- 8) Write a note on principle and procedure of flagella staining.
- 9) Discuss filtration as a method of sterilisation.
- 10) Describe the characteristics of antibiotics that qualify them as a chemotherapeutic agents.

SECTION - C

III. Answer any three of the following :

(3×10=30)

- 11) Discuss the Branches and scope of Microbiology.
- 12) Give a detailed account on the working principle, construction and application of phase contrast microscope.

P.T.O.



- 13) Explain in detail the differential staining technique in Bacteria.
- 14) Discuss heat as a method of sterilisation.
- 15) Describe the mode of action and antimicrobial spectrum of cephalosporins and Nystatin.

SECTION - D

IV. Answer in **one line only** :

(10×1=10)

- 16) Cold sterilisation
- 17) Germicide
- 18) Iwanosky
- 19) Magnification
- 20) Chromophore
- 21) Dye
- 22) Quaternary Ammonium Compounds
- 23) Photomicrography
- 24) SEM
- 25) Wonder Drug.

BMSCW