

M. D. (MICROBIOLOGY) : SUMMER - 2018

**SUBJECT: PAPER – I
(GENERAL MICROBIOLOGY AND IMMUNOLOGY)**

Day: **Saturday**
Date: **02/06/2018**

S-2018-3411

Time: **2.00 P.M. TO 5.00 P.M**
Max Marks. 100

N.B.

- 1) Q. No. 1 and Q. No. 2 are **COMPULSORY**. Write any **SEVEN** out of remaining eight questions.
 - 2) The number to the right indicates **FULL** marks
 - 3) Draw neat and labeled diagram **WHEREVER** necessary
-

- Q.1** Discuss the mechanism of action of antibiotics on bacterial cell wall and development of drug resistance. **(15)**
- Q.2** Describe the cell mediated immune response in detail. Add a note on methods used for its detection. **(15)**
- Q.3** Discuss various sterilization techniques and controls used in CSSD. **(10)**
- Q.4** What is the role of immunofluorescent techniques in diagnostics? **(10)**
- Q.5** Methods of Anaerobic cultivation techniques. **(10)**
- Q.6** What are the contributions of Louis Pasteur to microbiology? **(10)**
- Q.7** What do you understand by Accreditation of a Microbiology laboratory? What are the advantages of the process? **(10)**
- Q.8** Differentiate between classical and alternate pathways of complement activation. Discuss the role of complement in various serological tests. **(10)**
- Q.9** Explain biological activities of endotoxins and discuss methods for their detection. **(10)**
- Q.10** What are Natural killer cells? What is their role in immunity? **(10)**

* * *