

M. D. (Microbiology) : WINTER - 2018
SUBJECT: PAPER – I
(GENERAL MICROBIOLOGY AND IMMUNOLOGY)

Day: Saturday
Date: 01/12/2018

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

W-2018-3555

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
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- Q.1** Discuss biomedical waste management in hospital and other clinical establishments as per latest guidelines. **(15)**
- Q.2** Describe the factors and mechanism involved in innate immunity. Add a note on Toll like receptors and their importance. **(15)**
- Q.3** Define an epidemic and enumerate steps to investigate an outbreak. **(10)**
- Q.4** Define disinfection. Classify various disinfectants. Write in brief their mode of action and tests to determine their efficacy. **(10)**
- Q.5** What are super antigens ? Describe their role in immunity. Name at least four antigens. **(10)**
- Q.6** Discuss point of care testing in microbiology. **(10)**
- Q.7** Discuss T – lymphocytes and their subsets. What is their role in immunity? **(10)**
- Q.8** Define complement. Briefly write about immunological and biological activities of complement components. **(10)**
- Q.9** Discuss IRIS (Immune Reconstitution Inflammatory syndrome) **(10)**
- Q.10** Describe briefly various methods by which bacteria can acquire new genes. Add a note on transposable genetic elements. **(10)**

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