

M.Sc. DEGREE (C.S.S.) EXAMINATION, JUNE 2015**Fourth Semester**

Faculty of Science

Branch VI—Botany—Elective—Microbiology

PE 2—CLINICAL MICROBIOLOGY

(2012 Admission onwards—Regular/Supplementary)

Time : Three Hours

Maximum Weight : 30

I. Answer any *six* of the following each in not less than 50 words (weight 1 each) :

- | | |
|-------------------------|----------------------------|
| 1 Phagocytosis. | 2 Acquired immunity. |
| 3 B cells. | 4 Humoral immunity. |
| 5 Natural Killer cells. | 6 Super antigens. |
| 7 Agglutination. | 8 Anti-idiotypic vaccines. |

(6 × 1 = 6)

II. Answer any *seven* of the following each in not less than 100 words (weight 2 each) :

- 9 What are autoantigens ?
- 10 What are the components of adaptive immunity ?
- 11 What is the function of immunoglobulin ?
- 12 What is the use of immunoelectrophoresis ?
- 13 Describe the epidemiology of common viral diseases in humans.
- 14 Explain phage typing.
- 15 Explain different types of immune disorders.
- 16 Explain the methods for the detection of viruses.
- 17 Describe the mechanism of bacterial virulence.
- 18 Write notes on antibiotic resistant bacteria.

(7 × 2 = 14)

III. Answer any *two* of the following each in not less than 250 words (weight 5 each) :

- 19 Give an account of common bacterial diseases in humans.
- 20 Discuss the major protozoan diseases in humans.
- 21 Explain antibody production and the mechanism of antibody mediated immune response.

(2 × 5 = 10)