

2019

(January)

Time : 2 hours

Full Marks : 40

Answer all questions

*The figures in the right-hand margin indicate marks**Candidates are required to answer in their own words
as far as practicable*

Draw neat labelled diagrams wherever necessary

(MICROBIOLOGY AND IMMUNOLOGY)

1. Describe the properties and classification of Viruses. 14

*Or*Write notes on any *two* of the following : 7×2

- (i) Nutrition in bacteria

- (ii) Mycoplasma

- (iii) Yeasts and Cyanobacteria.

2. Describe bacteriophage genome and genetic recombination in phase. 13

*Or*Write notes on any *two* of the following : $6\frac{1}{2} \times 2$

- (i) Genetic transformation

- (ii) Transduction

- (iii) Virus as a tool in genetic engineering.

3. Describe the types of Immunity. 13

*Or*Write notes on any *two* of the following : $6\frac{1}{2} \times 2$

- (i) Lymphoid organs

- (ii) Structure and functions of Immunoglobulins

- (iii) Human Immune deficiency diseases.

(Turn Over)