

**B.Sc. 5th Semester (Honours) Examination, 2019-20**

**PHYSIOLOGY**

**Course ID : 52517**

**Course Code : SH/PHY/504/DSE-2 (T)**

**Course Title : Microbiology and Immunology**

**Time: 2 Hours**

**Full Marks: 25**

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words  
as far as practicable.*

1. Answer *any five* of the following: 1×5=5
- (a) Define sterilization.
  - (b) Write the names of any two non-pathogenic bacteria.
  - (c) Write the chemical nature of complement present in plasma.
  - (d) Define prions.
  - (e) What do you mean by antibiotics?
  - (f) Write the name of any one bacteriostatic agent.
  - (g) What is hinge zone of Ig molecule?
  - (h) Define precipitation reaction of Ag-Ab reaction.
2. Answer *any two* of the following: 5×2=10
- (a) Describe the different phases of bacterial growth cycle. 4+1=5
  - (b) Write the core structure of Ig monomer with diagram. 4+1=5
  - (c) Describe the structure of different parts of bacteriophage. 4+1=5
  - (d) Write the role of humoral immunity for defence activity of the body. 5
3. Answer *any one* of the following: 10×1=10
- (a) Describe the classical pathway of complement activation, with diagram. 6+4=10
  - (b) State the different events of lytic cycle of bacteriophage with pictorial presentation. 6+4=10
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