



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Programme 6th Semester Examination, 2022

**DSE1/2/3-P2-PHYSIOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Attempt any *five*: 1×5 = 5
- (a) Define haptan.
  - (b) Name two gram positive bacteria.
  - (c) What is spore?
  - (d) Define immunogen.
  - (e) What is ADCC?
  - (f) What is lymphokine?
  - (g) What is pathogen?
  - (h) Mention the principles of Immunological Detection of Pregnancy.
  - (i) What is lysogenic cycle?
  - (j) What is NK cell?

**GROUP-B**

**Attempt any *three***

5×3 = 15

2. Discuss lytic cycle. 5
3. Give a brief description of different types of T cells. 5
4. Discuss growth curve of bacteria. 5
5. Discuss the role of skin as innate immune barrier. 5
6. Discuss the causes, symptom and prevention of AIDS. 5

**GROUP-C**

**Attempt any two**

10×2 = 20

7. Describe humoral immunity. 10
8. Write short notes on – 5+5 = 10
- (a) Lymph Node
  - (b) Action of B cell.
9. Describe the structure of bacterial cell wall with diagram. 10
10. Write short notes on –  $2\frac{1}{2} \times 4 = 10$
- (a) Pasteurization
  - (b) Sterilization
  - (c) Pathogenic bacteria
  - (d) Non-Pathogenic bacteria.

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