



RAN - 2103000204020117

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**B.Sc. (Non - NEP) (Sem. IV) Examination April - 2025**

**Bioscience (Microbiology) Human Physiology - Old**

**(Paper : BS - 403)**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**B.Sc. (Non - NEP) (Sem. IV)**

Name of the Subject :

**Bioscience (Microbiology) Human Physiology - Old  
(Paper : BS - 403)**

Subject Code No.: **2103000204020117**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate **full marks** of the question.  
(3) Draw neat and labeled **diagrams** whenever necessary.

**Q.1 Multiple choice question. (MCQ)**

**8**

- The antibody that is first formed after infection is \_\_\_\_\_
  - IgG
  - IgM
  - IgD
  - IgE
- Blood group antigens are \_\_\_\_\_
  - Species specific
  - Isospecific
  - Auto specific
  - Organ specific
- T-cells are produced from \_\_\_\_\_
  - Bone marrow
  - Thymus
  - Spleen
  - None
- Natural killer cells
  - Belongs to B-cell lineage
  - Belongs to T-cell lineage
  - Display cytotoxic effect on tumor cell
  - Require previous antigen exposure for activation

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**[ 1 ]**

**[ P.T.O. ]**

**P0710**

5. \_\_\_\_\_ is an example of air borne disease?
  - a. TB
  - b. Polio
  - c. AIDS
  - d. All
6. Which of the following is an example of focal infection?
  - a. Diphtheria
  - b. Tetanus
  - c. Tonsillitis
  - d. All
7. When primary infection is super imposed by another new infection is called \_\_\_\_\_
  - a. Reinfection
  - b. Super infection
  - c. Secondary infection
  - d. All
8. Presence of bacteria in blood is called \_\_\_\_\_
  - a. Bactericidal
  - b. Bacteriostatic
  - c. Bacteremia
  - d. All

**Q.2 (A) Short answer question. 4**

1. Define: Attenuation
2. Define : Immunogen, Haptens
3. What is hospital acquired infection?
4. Enlist the viral infections

**(B) Write short notes. (Any Two) 10**

1. Microbial antigen
2. Humoral v/s Cellular immunity.
3. Endotoxin.

**Q.3 Answer any two of the followings: 14**

1. Discuss the nonspecific internal defense system.
2. Briefly describe the active & passive immunity.
3. Explain the phagocytosis.

**Q.4 Write an essay on - Antigen. 14**

**OR**

**Q.4 Answer of the followings: (Any two) 14**

1. Describe in brief Ig - M.
2. Write a note on types of infection
3. Explain importance of normal flora