

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Sc.(BT) (2013 to 2017) (Sem.-3)**

# IMMUNOLOGY-I

**Subject Code : BSBT-205**

**Paper ID : [F0214]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students has to attempt any **TWO** questions.

## SECTION-A

**Q1. Answer briefly :**

- Define passive immunity.
- What are macrophages?
- Define CALT. What's its role?
- What is complement fixation?
- Define Bursa of fabricius.
- What are surface markers?
- Draw the structure of lymph node.
- Define variable region of antibodies and its function.
- How histamine plays role in immune response?
- Write the Koch's postulates.

### SECTION-B

- Q2. Discuss the contributions of Louis Pasteur in Medical microbiology.
- Q3. Describe the lymphocyte trafficking.
- Q4. How T-Cell recognize the antigens?
- Q5. Explain the structure of IgM.
- Q6. Give examples to explain Cell mediated immunity.

### SECTION-C

- Q7. a) Give the comparison of non-specific and specific immunity.
- b) Give a comparison of class MHC-I and MHC-II molecules.
- Q8. Discuss Complement cascade and its significance in immune system.
- Q9. Write notes on the following :
- a) T-independent and T-dependent antigens
- b) Lymphoid cells and their functions