



SLR-ST – 178

Seat No.	
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**B.Sc. – II (Semester – IV) (CGPA) (Old) Examination, 2018**  
**MICROBIOLOGY (Paper – V)**  
**Immunology and Medical Microbiology**

Day and Date : Tuesday, 22-5-2018  
Time : 2.30 p.m. to 5.00 p.m.

Total Marks : 70

- Instructions :** 1) Figures to **right** indicate **full** marks.  
2) **All** questions are **compulsory**.  
3) Draw **neat** labelled diagrams **wherever** required.

1. Rewrite the sentences after choosing **correct** answer from the given alternatives. **14**

- i) \_\_\_\_\_ antibody is a pentamer.  
a) IgA                      b) IgM                      c) IgG                      d) IgE
- ii) How many polypeptide chains are present in IgG molecule ?  
a) 1                          b) 2                          c) 4                          d) 8
- iii) During humoral immune response B cells differentiate into \_\_\_\_\_ cells.  
a) Plasma                      b) Dendritic  
c) Cytotoxic                      d) Mast
- iv) Antigen antibody reaction in VDRL test is of \_\_\_\_\_ type.  
a) Agglutination                      b) Precipitation  
c) Flocculation                      d) None of these
- v) Primary lymphoid organ is \_\_\_\_\_  
a) Spleen                      b) Bone marrow  
c) Lymph node                      d) Payers patches
- vi) Use of Anti-Snake Venom (ASV) is an example of \_\_\_\_\_ immunity.  
a) Artificially active                      b) Naturally active  
c) Artificially passive                      d) Naturally passive

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- iv) Spread of dengue.
  - v) Pathogenicity and virulence.
  - vi) Endotoxin.
  - vii) Complement.
  - viii) Phagocytic cell.
  - ix) Inflammation.
3. A) Attempt **any two** of the following : **10**
- i) Mechanical barriers to infections.
  - ii) Active immunity.
  - iii) Bacterial toxins.
- B) Draw labelled diagram of structure of Immunoglobulin G (IgG). **4**
4. Attempt **any two** of the following : **14**
- i) Invasion.
  - ii) Adherence factors.
  - iii) Second line of defence.
5. Attempt **any two** of the following : **14**
- i) Candida albicans infection.
  - ii) Diagnosis of dengue infection.
  - iii) Active immunity.
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