**Sardar Bhagwan Singh University, Balawala, Dehradun, UK**

Week 8: Question Bank Course: M.Sc., Microbiology/Biotechnology

Semester II Subject: Immunology Course Code: BIOC-521

Subject teacher: Dr. S. K. KARN

1. Name the heavy chain of immunoglobulin G.  
   a) μ  
   b) ε  
   c) α  
   d) γ
2. Synthesis of antibodies takes place by which of the following cells?  
   a) Bone marrow cells  
   b) T-cells  
   c) B-cells  
   d) Lymph
3. The basic structure of antibodies are\_\_\_\_\_\_  
   a) Y-shaped  
   b) X-shaped  
   c) Linear  
   d) Hyperbolic
4. What is the name of the hypervariable region of immunoglobin, which is responsible for its diversity?  
   a) CDR  
   b) Hinge region  
   c) Epitope  
   d) Agretope
5. Which immunoglobulin can pass through placenta?  
   a) IgD  
   b) IgE  
   c) IgM  
   d) IgG
6. Name the class of immunoglobulin which has a pentameric structure?  
   a) IgE  
   b) IgG  
   c) IgA  
   d) IgM
7. Name the class of immunoglobulin which takes part in hypersensitivity reaction?  
   a) IgG  
   b) IgE  
   c) IgA  
   d) IgM.
8. Salivary amylase…..
9. Basophill cells…….
10. Mast cells……………

**In Detail**

1. Describe acute inflammation.
2. Explain hypervariable region
3. Explain secondary lymphoid organ.
4. Explain Mucosal and Cutaneous, associated lymphoid tissue,
5. Describe antigen binding site.