1. Immune disorders include
   a) hypersensitivity
   b) auto-immune diseases
   c) immunodeficiency
   d) all of these

2. The inappropriate response of immune system towards a relatively harmless antigen causing harm to the host is referred as
   a) hypersensitivity
   b) auto-immune diseases
   c) immunodeficiency
   d) tolerance

3. Which of the following Ig is involved in mediating allergic reactions
   a) IgG
   b) IgM
   c) IgE
   d) IgA

4. The major chemical messenger involved in hypersensitivity is
   a) interleukines
   b) lymphokines
   c) hiatamines
   d) interferons
5. Which of the following types of hypersensitive reactions is antibody mediated
   a) Type I
   b) Type II
   c) Type III
   d) all of these

6. Which one of the following is a cell mediated hypersensitive reaction
   a) Type I
   b) Type II
   c) Type III
   d) Type IV

7. The inability to distinguish between self-cells and non-self-cells may lead to
   a) hypersensitivity
   b) auto-immune diseases
   c) immunodeficiency
   d) tolerance

8. Majority of auto immune diseases are
   a) cell mediated
   b) antibody mediated
   c) macrophage mediated
   d) mast cells mediated

9. All of the following are autoimmune disorders except
   a) Graves disease
   b) SCID
   c) Rheumatoid arthritis
   d) Addison’s disease
10. Rheumatoid arthritis mostly occur in individuals carrying
   a) HLA-DR4 gene (HLA-human leucocyte antigen)
   b) HLA-DR1 gene
   c) HLA-DR3 gene
   d) all of the above

11. Some defects or mutations in components of innate or adaptive immunity may lead to
   a) hypersensitivity
   b) auto-immune diseases
   c) immunodeficiency
   d) tolerance

12. In severe combined immune deficiency (SCID), the patients are deficient in
   a) B cells
   b) T cells
   c) both a and b
   d) IgA

13. SCID can occur due to the absence of an enzyme
   a) adenosine deaminase
   b) guanosine deaminase
   c) phosphorylase
   d) thymidine deaminase

14. HIV attacks
   a) T helper cells
   b) T cytotoxic cells
   c) B cells
   d) macrophages
15. All of the following are immunodeficiency diseases except
   a) Graves disease
   b) SCID
   c) DiGeorge’s syndrome
   d) Hyper IgM syndrome

**Answers**

1. d) all of these
2. a) hypersensitivity
3. c) IgE
4. c) histamines
5. d) all of these
6. d) Type IV
7. b) auto-immune diseases
8. b) antibody mediated
9. b) SCID
10. a) HLA-DR4 gene (HLA-human leucocyte antigen)
11. c) immunodeficiency
12. c) both a and b
13. a) adenosine deaminase
14. a) T helper cells
15. a) Graves disease