I. Choose and write the correct answer

1. Histamine is secreted by ……
   a. Epithelial cells  b. Mast cells  c. Erythrocytes  d. None of the above

2. Which of the following causes AIDS?
   a. Bacterial  b. fungus  c. Retro virus  d. TMV

3. Histamine is secreted by ……
   a. Epithelial cells  b. Mast cells  c. Erythrocytes  d. None of the above

4. Organ transplantation from pig to human is an example for
   a. Autograft  b. Allograft  c. Isograft  d. Xenograft

5. Thymus growth occurs up to ……
   a. 17 years  b. 12 years  c. 5 years  d. 30 years

6. Which of the following is anti-viral?
   a. Lysozyme  b. Interferon  c. Hormone  d. Protein

7. MHC genes in mouse is located in ……
   a. One  b. Two  c. Four  d. Six

8. The number of lymph nodes distributed in human body is about……
   a. 600  b. 700  c. 800  d. 900

9. Which one of the following is a chemical alarm signal?
   a. Lysozyme  b. Interferon  c. Histamine  d. HCl

10. Primary lymphoid organ in the bird is ……

11. Which of the following is an anatomical barrier?
    a. Anatomical barrier  b. Physiological barrier  c. Phagocytic barrier  d. Inflammatory barrier

12. Which of the following is a chemical alarm signal?
    a. Lysozyme  b. Interferon  c. Histamine  d. HCl

13. Which type of graft is used in plastic surgery?
    a. Xenograft  b. Allograft  c. Autograft  d. Isograft

14. Which of the following is a chemical alarm signal?
    a. Lysozyme  b. Interferon  c. Histamine  d. HCl

15. Which one of the following is a chemical alarm signal?
    a. Lysozyme  b. Interferon  c. Histamine  d. HCl
Dinitrophenol is an example of ……
a. Antigen  b. Immunogen  c. Haptens  d. MHC

16. ………b. 1-lymphocytes  2-lymphocytes  3-lymphocytes  4-lymphocytes
   a.………. b.………. c.………. d.………. cells organ culture is feasible.
a. Haematopoiesis.  b. Stem cell technology and cloning  c. Haptens  d. MHC

**SECTION – B**

17. What are immune suppressant drugs?
18. Distinguish paratope and epitope.
19. State the functions of spleen.
20. What are haptens?
21. Distinguish autograft and allograft.
22. What are the three main functions of antibodies?
23. What is lysozyme?
24. What is Phagocytosis?
25. Write the Medawar’s three observations on graft rejection?
26. Comment on L- Chain of Immunoglobulin
27. Mention the five types of Immunoglobulins.

**SECTION – C**

28. Give an account of immune deficiency diseases
29. Give an account of immune-deficiency diseases
30. Short note: Activation of adaptive immunity
31. What are the symptoms of graft rejection?
32. What is organ transplantation? Explain the types of grafts
33. Briefly describe the genetic basis of tissue transplantation

**SECTION – D**

34. Short notes: a. Phagocytic barriers  b. inflammatory barriers
35. a. Draw a labelled sketch of the structure of immunoglobulin. b. What are the unique features of adaptive immunity?
36. a. Describe the structure of lymph node with help of diagram b. Spleen as the lymphoid organ proves.
37. a. Anatomical barriers  b. Physiological barrier