



Q.1. Answer the following short questions:

(10x3=30)

- 1. Difference between SERUM & PLASMA.**
- 2. Define and explain HAPTENS?**
- 3. RIA is used for which purposes? Explain?**
- 4. What are the deficiency symptoms of Vitamin E?**
- 5. What is the difference between antigen and immunogen?**
- 6. Write Symptoms of infection?**
- 7. What is Ultra filtration?**
- 8. Write General composition of Blood?**
- 9. Explain Gaseous Transport?**
- 10. Define Adjuvants?**

Q.2. Answer the following questions.

(3x10=30)

- 1. Define Immune system? What do you understand by autoimmune disorders? Also discuss abnormalities of the Immune system.**
- 2. Explain Biosynthesis and metabolism of Hemoglobin?**
- 3. Explain in detail biochemistry, metabolism, function and deficiency symptoms of vitamin B-complex?**