



**Answer All The Questions**

**10 X 10 = 100 Marks**

1. Describe the structure and function of red blood cell membrane.
2. Explain the pathophysiology and laboratory features of Intravascular hemolysis.
3. Describe the role of plastics and plasticizer in blood banking.
4. Describe the pathophysiology of Febrile Non Hemolytic Transfusion Reaction (FNHTR).
5. Write a short note on Transfusion Transmitted Malaria.
6. What are different levels of documentation in blood banking? Explain with an example.
7. Describe the role of cytokines in hematopoiesis.
8. Describe Microlymphocytotoxicity test and its applications in transfusion medicine.
9. Explain the genetic mechanisms that create polymorphism with examples.
10. Classify hemorrhagic shock and discuss the pathophysiology.

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