

**THE APOLLO UNIVERSITY**

**Saketa, Chittoor, AP**

**AHS- V Semester End Examination, June-2024**

**Paper-II-PAST3502- HAEMATOLOGY AND TRANSFUSION MEDICINE**

**Time: 3 hours**

**Max. Marks: 60**

**Section –A (10x2=20 marks)**

**Answer all Questions**

1. What are the locations of hematopoiesis at different age groups?
2. Define anemia and its classification
3. What are the types of WBC?
4. Write the clinical features of ALL and AML.
5. What is the definition of hemostasis
6. Write the steps of blood clotting mechanism
7. List all the blood groups.
8. How do you treat Rh negative pregnancy?
9. Write the procedure of blood collection
10. Write briefly on TRALI

**Section –B (5X8=40 marks)**

**Answer all Questions either A or B in 400 words each**

11. A) What are the locations of haematopoiesis at different age? Mention the development of erythropoiesis, leukopoiesis and thrombopoiesis?  
**OR**  
B) What is the Pathogenesis, clinical features, investigations and treatment of sickle cell anemia?
12. A) What are the types of WBC, explain in detail. Explain the causes of increase in WBC cells?  
**OR**  
B) Explain FAB and WHO classification of AML. What are the risk factors, clinical presentation, lab diagnosis and treatment of AML?
13. A) Mention all the clotting factors and explain the intrinsic and extrinsic pathways.  
**OR**  
B) What are the Plasma cell disorders? Write the pathogenesis, clinical features, investigations and treatment of multiple myeloma?

**Cont....**

14. A) Describe Erythroblastosis fetalis. How do you prevent the foetal complications and treat the patient?

**OR**

B) Explain in detail pre transfusion testing. What that complication you have to be looking while transfusing and after the blood transfusion has completed?

15. A) How do you do identify the blood group of a person, what is the physiology behind the blood grouping and explain the procedure of blood grouping?

**OR**

B) Describe massive blood transfusion. What are the indications, guidelines recommendations, benefits and complications?

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