Assignment 11

Unit 13 - Week 11

Section Title: Cytokines and Hematopoiesis

1. What are cytokines? Provide examples of cytokines and their functions.

2. What is the role of hematopoietic stem cells in the bone marrow? How do they differentiate into various hematopoietic cells?

3. Describe the process of erythropoiesis and the factors that regulate it.

4. Explain the process of granulopoiesis and the factors that influence it.

5. What are the main functions of lymphocytes in the immune system? How do they differentiate from hematopoietic stem cells?

6. Discuss the role of monocytes and macrophages in immune response and tissue repair.

7. What are the main types of platelets and their functions in hemostasis?

8. Describe the process of thrombopoiesis and the factors that regulate platelet production.

9. Explain the role of cytokines in hematopoiesis and immune response.

10. What are the main types of blood cells and their functions? How do they differ from each other in terms of structure and function?