

**BOWEN UNIVERSITY, IWO**  
**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**  
**PURE AND APPLIED BIOLOGY PROGRAMME**  
**2021/2022 FIRST SEMESTER EXAMINATION**

**PAB 309: GENERAL HISTOLOGY**

Answer questions one and any two others.

*Time allowed: 2 hours 20 minutes*

1. a) Write short notes on the followings:
  - i. Dense connective tissues
  - ii. Mesenchymal cells
  - iii. Fibroblast
  - iv. Macrophages
  - v. Mast cells

*15 mks*

(b) Briefly discuss the structure and functions of the erythrocytes and platelets *15 mks*
  
2. (a) Present three classifications and locations of epithelial tissue *10 mks*  
(b) Differentiate the following:
  - i. Loose and Dense Connective Tissue *5 mks*
  - ii. Dense regular and Dense Irregular Connective Tissue *5 mks*
  
3. (a) Define epithelial tissue *2 mks*  
(b) List five (5) principal functions of epithelial tissue *10 mks*  
(c) Highlight the simple epithelial tissue classification and two locations each *6 mks*  
(d) List two abnormalities in simple epithelial cells *2 mks*
  
4. Briefly discuss any two agranulocytes and two granulocyte leucocytes *20 mks*
  
5. With the use of annotated algorithm, discuss the formation of blood *20 mks*