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I Answer the followings: (19 marks, quarter for each)

a) Choose the correct answer:-

1- Reticulocytes may be identified by light microscopy due to their containing basophilic

- a- Amino acids b- DNA c- Lipids d- RNA

2- The agranulocyte lineage of leukocytes contains the lymphocytes and what other cell type?

- a- Macrophages b- Megakaryocytes c- Monocytes d- Neutrophils

3- Platelets are cell fragments that derive from which cell type?

- a- Megakaryocytes b- Neutrophil c- CFU d- Liver

4- Platelets possess contractile activity, and play an important role in repairs to blood vessels. This contractile activity in platelets is mediated in part by

- a- Actin and myosin filaments b- Granulomeres
c- Megakaryocytopoiesis d- Smooth muscle

5- -Inactive marrow that functions primarily to store fat is termed

- a- Multilocular b- Red c- Unilocular d- White

6- Basophils, neutrophils, and eosinophils differentiate through a final common granulocytic precursor cell termed the

- a- Erythroblast b- Lymphoblast c- Platelet I d- Promyelocyte

7- In the pathway of erythrocytopoiesis, the final defined precursor cell before the formation of a mature erythrocyte is called a

- a- Erythroblast b- Myeloblast c- Platelet d- Reticulocyt

8- Your patient is suffering from an infestation of parasites. To determine the proper therapy, you perform an analysis of a peripheral blood sample. Which of the following cells would you expect to be increased in a peripheral blood smear?

- a-Neutrophil b- Basophil c- Eosinophil d- Monocyte

9- A decrease in the number of tissue macrophages would result from reduced activity of precursor cells to which of the following cell types?

- a- Basophils b-. Monocytes c.. Neutrophils d-. Megakaryocytes

10- Hemoglobin is first seen in which of the following cells of the erythrocytic series?

- a-. Basophilic erythroblast b- Polychromatophilic erythroblast
c- Acidophilic erythroblast d-. Reticulocytes

11- In which of the following cells of the erythrocytic series is the nucleus extruded?

- a-. Basophilic erythroblast b- Polychromatophilic erythroblast

c- Acidophilic erythroblast

d-. Reticulocytes

12- Which of the four basic tissue types does blood belong to?

a. Epithelium

b. Connective tissue

c. Muscle

d. Nervous tissue

13- Which of the following formed elements do not contain a nucleus in mammals?

a. Platelets

b. Erythrocytes

c. Leukocytes

d. Both a and b

14- Which leukocyte has a multi-lobed (3-5 lobes) nucleus?

a. Neutrophil

b. Lymphocytes

c. Monocytes

d. Eosinophil

With Our Best Wishes

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