

MCQS in Blood & Hemopoiesis

Histology

1- Neutrophil nucleus is:

- a- Unilobed**
- b- Bilobed**
- c- Multilobed**
- d- None of the above**

2- All are true for reticulocytes EXCEPT:

- a- Immature erythrocyte**
- b- About 10% of total erythrocytes**
- c- Have no nucleus**
- d- Reticulocytosis occurs in haemorrhage or high altitude**

3- Regarding adaptation of erythrocytes:

- a- Absence of nucleus & organelles**
- b- The biconcave disc-shape of RBCs**
- c- Cell membrane is flexible**
- d- All of the above**

4- The life span of an erythrocyte in the circulation is:

- a- 20 days**
- b- 1 year**
- c- 5 weeks**
- d- 4 months**

5- Specific granules of these cells have crystalline core:

- a- Neutrophils**
- b- Eosinophils**
- c- Basophils**
- d- Monocytes**

6- Granular leukocytes differ in:

- a- Shape of the nucleus**
- b- Percentage**
- c- Staining reaction of their specific granules**
- d- All of the above**

7- Which of the following cells have mainly acidophilic cytoplasm?

- a- Proerythroblast**
- b- Erythroblast**
- c- Orthochromatophilic erythroblast**
- d- Basophilic erythroblast**

8- The active bone marrow is:

- a- Red**
- b- Yellow**
- c- White**
- d- None of the above**

9- Which of the following have no granules?

- a- Metamyelocyte**
- b- Myeloblast**
- c- Promyeloblast**
- d- Myelocyte**

10- Found only in bone marrow:

- a- Pericytes**
- b- Astrocytes**
- c- Megakaryocytes**
- d- Myocytes**

11- Leukocytosis is:

- a- An increase of WBCs count**
- b- An increase of RBCs count**
- c- A decrease of WBCs count**
- d- A decrease of RBCs count**

12- The stem cells of T & B-lymphocytes originate in the:

- a- Bone marrow**
- b- Lymph node**
- c- Spleen**
- d- Thymus**

13- Changes occurring during maturation of RBCs are all EXCEPT:

- a- Cell size become smaller**
- b- Nucleus become smaller,condensed & lobulated**
- c- Ribosomal cytoplasm decrease & HB increase**
- d- Mitochondria and other cell organelles gradually disappear**

14- Megakaryocytes:

- a- Are multinuclear**
- b- Serve as precursors to macrophages**
- c- Are haploid**
- d- Are located mainly in the spleen**
- e- None of the above**

15- It stimulates the stem cell to form blood cell:

- a- Reticular cell**
- b- Fibroblast**
- c- Macrophage**
- d- Osteogenic cell**

16- Is the local fuel for hematopoiesis:

- a- Reticular cell**
- b- Fibroblast**
- c- Fat cell**
- d- Osteogenic cell**

17- The following statements about the basophils are correct EXCEPT:

- a- Form about 0,5% of the total leukocytic count**
- b- One of the granular leukocytes**
- c- Show central rounded nuclei**
- d- Show basophilic granules**

18- The name of the reticulocytes is due to:

- a- Golgi complex**
- b- Nucleoli**
- c- Smooth endoplasmic reticulum**
- d- Polyribosomes**

19- Megakaryocytes are:

- a- Multinucleated cells**
- b- Have haploid number of chromosomes**
- c- Act as precursors to macrophages**
- d- None of the above**

20- Neutrophils are characterized by one of the following:

- a- Form 5-10% of the total leukocytic count**
- b- Have metachromatic stained granules**
- c- Show agranular cytoplasm**
- d- Have multilobed nuclei**

21- Eosinophils are characterized by one of the following:

- a- Have acidophilic granules**
- b- Form 25% of the total leukocytic count**
- c- Have rounded nuclei**
- d- Converted to plasma cells**

22- Monocytes are characterized by one of the following:

- a- Granular cytoplasm**
- b- Phagocytic function**
- c- The mother cell of lymphocytes**
- d- Show negative golgi image**

Key answer

1	c	12	a
2	b	13	b
3	d	14	e
4	d	15	a
5	b	16	c
6	d	17	c
7	c	18	d
8	a	19	d
9	b	20	d
10	c	21	a
11	a	22	b

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