Kafrelsheikh university
Facu.of Vet.Medicine
Depts. Of clinical pathology
Exam for undergraduate students

V Dec (۲۰۱۷)

جامعة كشر الشيخ afrelsheikh University

Time allowed(\(^\text{hrs}\))

All questions should be answered

1- Write brief account on

(\(^marks\), \(^t\) for each)

- a- Diagnosis of acute leukemia.
- b- Hemolytic anemia.
- c- Polycythemia Vera.
- d- Thrombocytopenia.

7-Write short notes on

(V, o marks 1, o each)

a-Reticulocytosis b- neutropenia

c-Shift to left c-Aplastic anemia.

d. Thrombocytopathy.

~-Mark true or false

(\forall marks, \cdot, \circ for each)

- a-Macrocytosis and hypochromia indicate the presence of large leukocytes
- b- Increased aminolevulinic acid synthase activity increase heme production.
- c-Enzyme deficiency in Hexose monophosphate pathway leads to formation of hemorrhagic anemia .
- d- presence of multisegmented neutrophil in the peripheral circulation indicates bone marrow regeneration

\(\frac{\x}{2}\)-Choose the correct answer

(£, o marks ·, o for each)

\- The major site for removal of normal, aged erythrocytes

is the

a-bone marrow b- liver c- kidney d- spleen

7- Ahematocrit measures

- a-The percentage of blood cells in blood
- b-The percentage of lymphocytes.
- c-The percentage of blood cells consisting of leukocytes
- d- The percentage of red cells in blood

- a-Tuberculosis b- parasitic infection c-ulcerative colitis d- non of the above
- 4-Which of the following tests is most effective means of assessing red cell generation in response to anemia?
- a- Red blood cells distribution width.

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b-Reticulocyte count c-Platelet count d- CBC

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°-Which red cell inclusions originate as a result of denaturized hemoglobin

a- Howell and jolly bodies b- Hienz bodies

7- Qualitative abnormalities in white cell include all except which of the following

a-Toxic granulation b-Hypersegmentation c-Metarubricyte d-Dohle bodies

Y- Red blood cell production will be stimulated by

a-Erythropoietin b-Decreased muscle activity c-Increased oxygen availability d- Decreased number of white blood cells.

$^{\text{$\wedge$-}}$ In which of the following conditions will macropolycytes present.

a-Hemorrhagic anemia b- Aplastic anemia. c-hemolytic anemia.

d- non of the above

9- Anemia of chronic disease includes.

a-Vitamin B \ \ deficiency b- Pernicious anemia c- Increased secretion of erythropoietic factor d- All of the above e- None of the above.

°-Classify only

(* marks one for each)

a-Anemia

b- polycythemia.

c-Leukemia.

GOOD LUCK