



KISII UNIVERSITY

UNIVERSITY EXAMINATIONS

SPECIAL/SUPPLEMENTARY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION SCIENCE

SECOND SEMESTER, 2022/2023

(NOVEMBER/DECEMBER, 2022)

BFBT 314: HISTOPATHOLOGY

STREAM: Y2 S2

TIME: 2 HOURS

DAY:

DATE: 00/12/2022

INSTRUCTIONS

- 1. Do not write anything on this question paper.*
- 2. Answer ALL the questions in section A [Compulsory] and any other TWO Questions from section B.*

SECTION A

1. Differentiate between four forms of leukemias based on cell types
(4 marks)
2. Outline the various means by which autologous blood can be provided by the receiver.
(3 marks)
3. A doctor attending to a patient concluded that there was a bleeding problem due to impaired clotting, Outline the various factors that could have lead to the impaired clotting.
(4 marks)

4. A patient with a bleeding disorder was transfused, but later suffered a mild reaction, based on the three pairs of genes that code for Rh, discuss this occurrence. (3 marks)
5. Outline the various conditions associated with secondary cardiomyopathies (4 marks)
6. Briefly discuss the advantages of switching from HbF to HbA (2 marks)
7. Describe the various phases of hemopoiesis in utero, in terms of gestational age and location (3 marks)
8. An old man was dragged to court for bewitching a 98 years old bed-ridden woman and causing her long bone marrow to change from red to yellow. Argue in favor or against the old man. (3 marks)
9. A histopathologist made note that patient x had 10% reticulocytes in the blood circulation. Differentiate this cells from the normal related cells and give the possible effect the number of reticulocytes on the patient. (4 marks)

SECTION B

10. Discuss the various forms of thrombocytopenia (15 marks)
11. A forensic scientists working on a suspected murder case came across a medical report indicating that the person died out cardiomyopathy. Discuss the causes and symptoms of various forms of cardiomyopathies that could have lead to this death. (15 marks)

12. a) Discuss the process of hemopoiesis (7marks)
- b) Discuss the following disorders of ventilation and gas exchange;

i) Hypoxemia (7marks)

ii) Hypercapnia (8 marks)