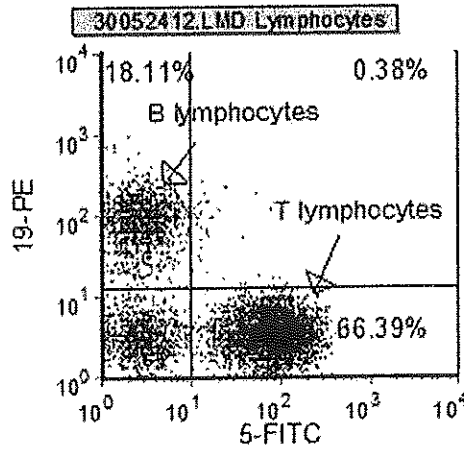


Question 02

The image given below is of a flow cytometry dot plot obtained using two markers, CD19 and CD5.



2.1 Name one (01) type of sample that can be used for flow cytometry? (01 marks)

.....

2.4 What are denoted by PE in the y-axis and FITC in the x-axis of the above dot plot? (02 marks)

.....

2.3 Name three (03) components of a flow cytometer. (03 marks)

.....

2.4 State the immunophenotyping of the B lymphocytes and T lymphocytes with respect to the CD markers? (04 marks)

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Question 03

3.1 Name two (02) properties of pluripotent stem cells. (01 marks)

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3.2 Name the three (03) types of pluripotent stem cells. (03 marks)

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3.3 Briefly explain the process of obtaining peripheral blood stem cells from a donor. (03 marks)

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3.4 Outline the process of engraftment. (03 marks)

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Question 04

4.1 Define the term "reference range".

(02 marks)

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4.2 How would you calculate the reference range for a skewed data set?

(03 marks)

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4.3 Name two (02) inherent factors which can influence the reference range.

(02 marks)

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4.2 Briefly explain how you would collect specimens for reference range calculations.

(03 marks)

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Part C: Essay Questions (30 marks)

Question 01

Write a brief account of Von Willebrand's disease including the laboratory diagnosis. (15 marks)

Question 02

Write a brief account on interpreting the red cell histogram of a haematology analyzer report. Illustrate using diagrams where necessary. (15 marks)

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