



Q1 / Answer ( Only Two)

(10 marks)

A / What is biomarkers ?

B / Enumerate the advantages of DNA vaccine (Five Only).

C / What are the Applications of Flow Cytometry ?

Q2 / Chose the correct answer

(10 marks)

1. In flow cytometry technique, ..... data can be displayed in two dimensions using dot, density or contour plots.

A. Single parameters.

B. Dual parameter.

2. .... is a method of measuring multiple physical and chemical characteristics of particles by optical means.

A. Edible vaccines.

B. Flow cytometry.

3. .... is an immunological technique used to measure the level of antibodies or antigen in the body fluid.

A. ELISA

B. Real Time PCR

4. In diseases diagnosis by PCR technique, the amplification process is mediated by ..... that, typically, are 20-30 nucleotides long.

A. Oligonucleotide primers.

B. ELISA.

5. Complex organ functions or general characteristic changes in biological structures can also serve as :

A. Biomarkers.

B. Existing biomarker.

C. All above.

6. The disadvantage of RT-PCR :

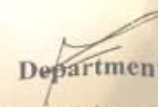
A. High equipment costs.

B. Non sensitive.

  
Lecturer

Ass. Lech. Khetam Qaid

Best Wishes

  
Department Head

Dr. Mohammed Al-Askari

B  
B  
A, B  
A  
C  
A  
2-259