



First Monthly Examination, Second Semester - 2020-2021

Q1/ Answer these questions briefly

(15 Marks)

1. Mention the chemical materials in 6X loading dye in electrophoresis with their function.
2. Buffer is....
3. What is the electrical charge of DNA? Why?
4. A is dissolved in to make a
5. What is the meaning of 10X solution?
6. DNA extraction is used to.....,,
7. The movement of particles under electric field in a fluid is called (Electrolytic, Ladder, Electrophoresis).
8. Why plant genomic DNA is more difficult to extract than animal genomic DNA?
9. What is the function of EtBr?
10. Parts of electrophoresis equipment are,,

Q2/ Answer one of these questions.

(5 Marks)

- A/ What are the chemical materials used in DNA extraction? And mention their functions.
- B/ Less concentration of agarose gel used to separate large fragments of DNA while high concentration used for small fragments. Why?

Q3/ Answer these questions.

(10 Marks)

- A/What is melting temperature of DNA in PCR? Find the melting temperature of this sequence (GTGCCATTGATCTTGG).
- B/ Describe the role of Taq polymerase in amplifying the DNA.

Asst. Lecturers

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