**Question 1:**

**-Fill in the blanks with the appropriate word(words):**

**{4 marks}**

1. …………………………………….. is a stain used to locate DNA fragments in electrophoretic gels because of its fluorescence under ultraviolet light.
2. Mixture of …………………. and their ……………… are called buffer solutions.
3. **………………………..**, which contains the solvent used to carry the sample through the system. The solvent should be filtered with an **…………………………** to remove any particles that could potentially damage the system's sensitive components.
4. In electrophoresis The solution is generally held in a ……………………. medium such as gel made of starch, agar or polyacrylamide.
5. **……………………………….**, also known as the injection valve.

7- ..................................... phase HPLC is the most commonly used form of HPLC.

**Question 2:**

**-Define the following terminology: {4 Marks}**

**- ELECTROPHORESIS**

**-marker :**

**- *Retention time* :**

**-**  **a back pressure regulator:**

**- Question 3: {2 Marks}**

**List:**

**-The basic components of an HPLC system**:

**1-**

**2-**

**3-**

**4-**

**5-**

**6-**

**-phases of HPLC:**

**Good luck☺**