Name:-

A- Complete the fowling gaps:-

1- Mention the three different stages in the PCR experiment:-

2- The major two aims of using the sterilization procedures when dealing with the different bacterial cultures are:-

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3- In the Purification process from the PCR Amplifications product an ..... volume of Membrane Binding Solution will be added to the PCR amplification product.

4- In the PCR experiment the double strands of DNA separated to be two single strands at ..... temperature.

5- The DNA bands can be visualized after running the gel agarose by using ..... light.

6- After cooking the gel agarose mixture, the mixture should be cooled to .....degrees before adding 3µl EtBr.

7- Before running the samples in gel agarose, the gel should be sunk in a tank and then it should be covered with 1X of..... buffer.

8- To purify a specific segment of PCR Amplifications product the procedure will be in three steps starting from binding the DNA to SV Minicolumn followed by ..... and the final step is.....

9- The PCR experiment contains several repeated cycles around.....cycles.

10- Anneals the two primers to both of the DNA single strands in the PCR experiment is happening at temperature ranging from .....°C depending on the ..... of each primer.

11-There are two different methods to prepare competent bacterial cells:

1- 2-

B- Answer the fowling questions:-

1- What is the aim of the ligation experiment?

2- Mention the aim of the Purification of a specific DNA segment experiment?

3- In which step of the PCR experiment the Tag DNA polymerase add the free nucleotides to the primer? And at which temperature this happens?

4 - What is the aim of the PCR experiment?