10 (a) Cyclic photophosphorylation and non-cyclic photophosphorylation occur during the light-dependent stage of photosynthesis.

Outline the **differences** between cyclic photophosphorylation and non-cyclic photophosphorylation.

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..... [3]

(b) Complete the passage about the Calvin cycle using the most appropriate word or words.

A molecule of ..... combines with a five-carbon molecule, ribulose bisphosphate (RuBP), catalysed by the enzyme ..... . This reaction produces a six-carbon compound that splits into two molecules of a three-carbon compound, glycerate 3-phosphate (GP).

ATP and ..... are used to convert GP molecules into molecules of a three-carbon sugar, triose phosphate (TP).

Some TP molecules are used to make ....., while others are recycled to regenerate RuBP using ATP.

[4]

[Total: 7]