**Question 34 (8 marks)**

Nicole is highly allergic to shellfish and if she accidentally consumes any product with shellfish in it, she can go into anaphylactic shock. Symptoms of anaphylaxis include a red and hot rash, throat or tongue swelling, difficulty breathing, vomiting and low blood pressure. In the event she does go into anaphylactic shock, she carries an EpiPen®, which can provide her with a dose of epinephrine (adrenaline) and alleviate the symptoms.

1. Name the protective reflex that occurs as a result of the anaphylactic shock and describe how it occurs.

(2 marks)

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1. Name the internal non-specific defence that would cause the rash and the swelling of the tongue, throat and respiratory system. Explain the process that would occur, that would lead to the rash and swelling in those areas.

(6 marks)

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