

**AQA, OCR, Edexcel**

**A Level**

# **A Level Biology**

## **Blood Questions**

Name:

**M M E**

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**Total Marks: /18**

## Blood

1. Blood is the body fluid in animals that delivers nutrients and oxygen to cells and transports waste products away so they can be removed.
  - a) Blood is made up of a number of components that all have different functions in the body.
    - i) What are the four main components of blood? (4 marks)
    - ii) Describe the structure and function of an erythrocyte. (3 marks)
  - b) Tissue fluid is the medium in which cells are surrounded by and exchange substances with.
    - i) Explain how tissue fluid is formed. (3 marks)
    - ii) How does lymph differ from tissue fluid in terms of the cells it contains? (1 mark)
  - c) Blood clotting is an important function of the blood, it acts as a defence mechanism to minimise blood loss when a blood vessel is damaged.
    - i) Explain the process of blood clot formation from when a blood vessel is damaged. (5 marks)
    - ii) Explain how the ability of the blood to clot can sometimes be detrimental. (1 Mark)