2.6 The Western Front, 1914-18: Advances in Surgery and Blood Transfusion: 10-minute Pack

EDEXCEL 1HI0 · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. You are advised to spend about 10 minutes on this pack.

1 Name the scientist who discovered the ABO blood group system in 1901, work which underpinned safe blood transfusion.

(Total for Question 1 is 1 mark)

2 Give two reasons why X-ray equipment became an important part of treating wounded soldiers at Casualty Clearing Stations and Base Hospitals.

(Total for Question 2 is 4 marks)

3 Describe two advances in blood transfusion during the First World War that made it more practical to treat wounded soldiers on the Western Front.

(Total for Question 3 is 4 marks)

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Mark scheme · 2.6 The Western Front, 1914-18: Advances in Surgery and Blood Transfusion: 10-minute Pack

Question 1

Karl Landsteiner **B1**

Answer: Karl Landsteiner

Question 2

it let surgeons locate exactly where shrapnel or bullet fragments were lodged inside the body before operating, rather than searching for them during surgery **B2**

it let staff check the position of a fracture accurately, helping doctors decide on the right treatment, for example how a limb should be set or splinted **B2**

Answer: X-rays let surgeons locate embedded fragments precisely before operating, and let doctors check fracture positions accurately for correct treatment.

Question 3

advance 1 identified, e.g. the use of sodium citrate as an anticoagulant from around 1915 **B1**

supporting detail for advance 1, e.g. this stopped donated blood from clotting, allowing it to be stored and transported rather than requiring a living donor present **B1**

advance 2 identified, e.g. the establishment of a stored blood depot ahead of the Battle of Cambrai in 1917 **B1**

supporting detail for advance 2, e.g. this meant blood collected and stored in advance could be used quickly for transfusions during the battle, rather than surgeons having to find a matched donor under pressure **B1**

Answer: Any two advances, e.g. sodium citrate allowing blood storage, and the Cambrai stored blood depot making transfusion faster during a battle.

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