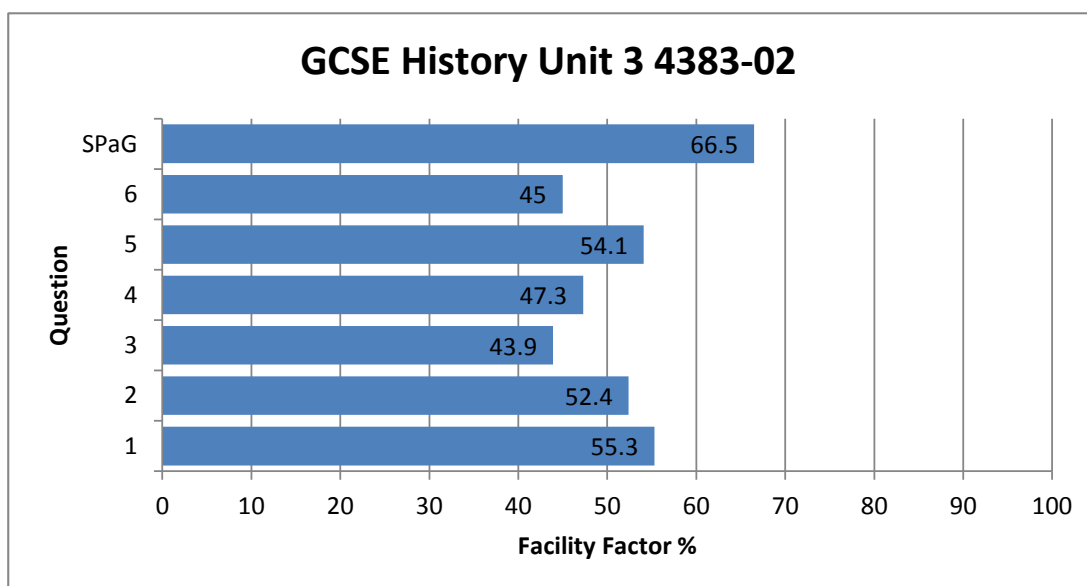


GCSE History Unit 3 4383-02

All Candidates' performance across questions

| Question Title | N | Mean | S D | Max Mark | FF | Attempt % |
|-----------------------|----------|-------------|------------|-----------------|-----------|------------------|
| 1 | 787 | 11.1 | 3.7 | 20 | 55.3 | 94.1 |
| 2 | 807 | 10.5 | 4.2 | 20 | 52.4 | 96.5 |
| 3 | 71 | 8.8 | 3.1 | 20 | 43.9 | 8.5 |
| 4 | 376 | 5.7 | 2.3 | 12 | 47.3 | 45 |
| 5 | 436 | 6.5 | 2.3 | 12 | 54.1 | 52.1 |
| 6 | 20 | 5.4 | 1.8 | 12 | 45 | 2.4 |
| SPaG | 832 | 2 | 0.6 | 3 | 66.5 | 99.5 |



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- [In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]*

2. (b) Explain why the development of penicillin has been important for the treatment and prevention of disease since the 1920s. [7]

[In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]

The discovery of penicillin has been important for the treatment and prevention of disease because source A shows Fleming examining a ~~petri~~ petri dish where he discovered that penicillin mold could kill bacteria in the late 1920s. From my own knowledge I know that Fleming couldn't mass produce penicillin, so, Florey and Chain decided to read Fleming's work and carried out experiments to see if Fleming's idea worked. It did, so and Florey and Chain decided to mass produce this wonder drug. They mass produced penicillin with the help from the American government. Source B ~~show~~ says that penicillin was developed on an industrial scale and was used widely after D-Day to treat wounded soldiers. ~~an~~ Also it was found to be very effective against gangrene, and reduced the chance of a wound getting infected.

2. (b) Explain why the development of penicillin has been important for the treatment and prevention of disease since the 1920s. [7]

[In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]

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2. (b) Explain why the development of penicillin has been important for the treatment and prevention of disease since the 1920s. [7]

[In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]

~~to the 1920's~~, Fleming's discovery of penicillin in 1929 was ~~an~~ extremely important in the field of treatment and prevention of disease. Source A shows Fleming examining a petri dish in the lab where he discovered the mould in the 1920's Fleming made the discovery by accident, when he noticed penicillin mould that was growing in a petri dish was killing the surrounding germs. He created a juice from the mould and used it to treat an infection in a colleague's eye, which cleared it up. Fleming published his findings, but never looked much further into the discovery.

Source B tells us how the Second World War forced companies to develop penicillin on a large scale, and how it was especially effective against gangrene as the infection risk was vastly reduced. Florey and Chain were the men who got funding from America to mass produce penicillin as a drug, which allowed hundreds of soldiers to get back on the battlefield when they'd otherwise be in hospital with infected wounds.

Penicillin is still the most widely prescribed drug today, and still saves just as many people's lives. Without Fleming's discovery, ~~the~~ millions of people's ~~lost~~ lives would have otherwise ended where penicillin allowed them to go on.

2. (b) Explain why the development of penicillin has been important for the treatment and prevention of disease since the 1920s. [7]

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[In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]

Source A shows Alexander Fleming studying the petri dish in which he found a mould. He ~~g~~ saw little bacteria around the mould and concluded that it had germ killing properties. He called it penicillium, wrote a report on it but took it no further.

They extracted penicillin from the mould

Howard Florey and Ernst Chain read Fleming's report and found it very interesting. They gathered a team of research experts and were given funding by the British government to experiment with it. They started on animals and then, in early 1941 the first human test occurred, it was a ~~g~~ success. Florey and Chain were responsible for the development of the first successful antibiotic, penicillin.

The U.S government were responsible for the mass production of penicillin. They paid \$80 million towards it. It saved thousands of lives during and after the war and was given the name, "the wonder drug".

2. (b) Explain why the development of penicillin has been important for the treatment and prevention of disease since the 1920s. [7]

Examiner
only

[In your answer, you should use the information provided in the sources and your own knowledge to show the extent of importance and the reasons for this]

6



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