

# Edexcel IGCSE: Changes in Medicine c1845-c1945 Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. What was required by the Labour party concerning funding for health reforms?**
  - A. The poor should fund their own health benefits.**
  - B. The rich should finance health reforms.**
  - C. Funding should come from local taxes.**
  - D. Health benefits should be funded equally by all income levels.**
- 2. What was a key feature of Paul Ehrlich's work in medicine?**
  - A. Development of the first reliable treatment for tuberculosis**
  - B. Development of the first reliable treatment for syphilis**
  - C. Invention of the first antiseptic method**
  - D. Creation of the first vaccine for polio**
- 3. How did the introduction of the National Health Service (NHS) in 1948 change healthcare in Britain?**
  - A. Provided private healthcare options for wealthier citizens**
  - B. Increased patient costs for treatments**
  - C. Provided universal free healthcare at the point of use**
  - D. Limited access to healthcare for the poor**
- 4. How did Hippocrates contribute to the medical field?**
  - A. By advocating for the use of antibiotics**
  - B. By promoting the importance of recording illnesses and treatments**
  - C. By performing the first surgical procedures**
  - D. By developing surgical instruments**
- 5. How did the Spanish flu pandemic of 1918 influence public health approaches?**
  - A. Led to a decrease in vaccination efforts**
  - B. Highlighted the need for better disease monitoring**
  - C. Were deemed unnecessary after the crisis**
  - D. Focused only on individual health care**

- 6. What advancement in public health came as a result of understanding the germ theory?**
- A. Development of better surgical instruments**
  - B. Improvement of wastewater treatment systems**
  - C. Advances in homeopathy practices**
  - D. Increased use of psychic medicine**
- 7. What was the final recognition received by Fleming, Florey, and Chain for their work on penicillin?**
- A. They were awarded a Nobel Prize**
  - B. They received a presidential medal**
  - C. They were published in multiple journals**
  - D. They founded a medical school**
- 8. What catastrophic event allowed John Snow to further prove his theory about cholera?**
- A. A major flood in London.**
  - B. The Great Plague.**
  - C. The 1854 cholera outbreak.**
  - D. A significant drop in public health funding.**
- 9. What discovery did Howard Florey and Ernst Boris Chain contribute to during World War II?**
- A. Mass production of morphine**
  - B. Mass production of penicillin**
  - C. Mass production of vaccines**
  - D. Mass production of antiseptics**
- 10. What was one major consequence of the introduction of the smallpox vaccine?**
- A. Significant reduction in smallpox cases and eventual disease eradication**
  - B. Increase in surgical success rates**
  - C. Establishment of germ theory**
  - D. Development of antibiotics**

## **Answers**

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1. B
2. B
3. C
4. B
5. B
6. B
7. A
8. C
9. B
10. A

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## **Explanations**

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**1. What was required by the Labour party concerning funding for health reforms?**

- A. The poor should fund their own health benefits.**
- B. The rich should finance health reforms.**
- C. Funding should come from local taxes.**
- D. Health benefits should be funded equally by all income levels.**

The Labour party, particularly during the post-World War II era, advocated that health reforms should be financed primarily by the wealthier segments of society. This principle was rooted in the belief that those with more resources should contribute a greater share toward social welfare and health benefits, ensuring that all citizens had access to essential healthcare services without the burden of high personal costs. The financing model aimed to reduce inequalities and support the establishment of a universal healthcare system, reflecting the party's commitment to social justice and collective responsibility. While local taxes and equitable funding from all income levels were also part of discussions around health financing, the emphasis on the wealthy contributing more was a defining feature of the Labour party's approach to health reforms during this period. This model aimed to ensure that healthcare access was not a privilege of the affluent but a right for all individuals, thereby promoting greater health equity in society.

**2. What was a key feature of Paul Ehrlich's work in medicine?**

- A. Development of the first reliable treatment for tuberculosis**
- B. Development of the first reliable treatment for syphilis**
- C. Invention of the first antiseptic method**
- D. Creation of the first vaccine for polio**

Paul Ehrlich's significant contribution to medicine was the development of the first reliable treatment for syphilis, known as Salvarsan (arsphenamine), in 1910. This marked a revolutionary advancement in the treatment of infectious diseases at the time, as syphilis was a major public health concern. Salvarsan was the first compound that targeted a specific bacterial infection effectively, paving the way for modern chemotherapy. Ehrlich's work exemplified the application of scientific research to practical medicine, showcasing how targeted treatments could emerge from understanding the underlying causes of diseases. This approach established the foundation for future drug development and highlighted the potential of using synthetic compounds for treating diseases. Understanding Ehrlich's contribution is crucial, as it directly influenced subsequent advancements in pharmacology and the treatment of other infectious diseases.

### 3. How did the introduction of the National Health Service (NHS) in 1948 change healthcare in Britain?

- A. Provided private healthcare options for wealthier citizens
- B. Increased patient costs for treatments
- C. Provided universal free healthcare at the point of use**
- D. Limited access to healthcare for the poor

The introduction of the National Health Service (NHS) in 1948 marked a significant transformation in the healthcare system in Britain by delivering universal free healthcare at the point of use. This meant that all citizens, regardless of their financial status, could access medical services without having to pay at the time of receiving treatment. The establishment of the NHS aimed to ensure that healthcare was a right for everyone and was funded through taxation, promoting equality in health access. This shift eliminated previous barriers that often left the poor without adequate medical support, thus fostering improved public health outcomes. The NHS provided necessary medical care, surgeries, preventive services, and essential treatments without direct costs to the patient, addressing the critical need for accessible healthcare following the struggles of the Second World War and the interwar period. The other options do not accurately represent the principles or outcomes of the NHS's establishment. The focus of the NHS was on providing comprehensive care for all, rather than catering to wealthier individuals or increasing patient costs. The system fundamentally transformed healthcare into a publicly funded service, showcasing a major step towards equity in health access in post-war Britain.

### 4. How did Hippocrates contribute to the medical field?

- A. By advocating for the use of antibiotics
- B. By promoting the importance of recording illnesses and treatments**
- C. By performing the first surgical procedures
- D. By developing surgical instruments

Hippocrates made a significant contribution to the medical field by promoting the importance of systematically recording illnesses and their treatments. This approach laid the foundation for clinical observation and documentation, which are essential components of modern medicine. His collection of works, known as the Hippocratic Corpus, emphasized the need for physicians to carefully observe their patients and keep detailed notes of their symptoms, diagnoses, and the effectiveness of treatments. This practice not only advanced medical knowledge at the time but also established a culture of accountability and research in medicine, encouraging future generations of physicians to learn from past experiences and improve their practices. The other options, while significant in their own contexts, do not accurately represent Hippocrates' contributions. For example, the use of antibiotics is a modern development that occurred much later in history. Surgical procedures were indeed performed before Hippocrates, but he did not perform the first surgeries nor is he credited with developing surgical instruments. Thus, while surgical knowledge evolved over time, Hippocrates' core influence was in the realm of thorough documentation and the ethical practice of medicine.

**5. How did the Spanish flu pandemic of 1918 influence public health approaches?**

- A. Led to a decrease in vaccination efforts**
- B. Highlighted the need for better disease monitoring**
- C. Were deemed unnecessary after the crisis**
- D. Focused only on individual health care**

The Spanish flu pandemic of 1918 significantly highlighted the need for better disease monitoring, which is why this option is the correct choice. The widespread impact of the pandemic revealed vulnerabilities in existing public health systems and emphasized the importance of early detection and tracking of disease outbreaks. Governments and health organizations recognized that improved surveillance and data collection were essential for understanding how diseases spread and how to respond effectively. This insight laid the groundwork for future public health strategies, including the establishment of more comprehensive health tracking systems and the implementation of quarantine measures during outbreaks. In contrast, the other options do not accurately reflect the lasting lessons learned from this pandemic. Rather than leading to a decrease in vaccination efforts, the crisis underscored the need for vaccines and preventive measures. The pandemic also demonstrated that health measures could not be deemed unnecessary after the crisis, as ongoing preparedness is essential for any potential future outbreaks. Lastly, while individual healthcare is important, the lessons from the pandemic advocated for a broader public health approach rather than focusing solely on individual care.

**6. What advancement in public health came as a result of understanding the germ theory?**

- A. Development of better surgical instruments**
- B. Improvement of wastewater treatment systems**
- C. Advances in homeopathy practices**
- D. Increased use of psychic medicine**

The advancement in public health that stemmed from the understanding of germ theory is the improvement of wastewater treatment systems. This theory, which gained prominence through the work of scientists like Louis Pasteur and Robert Koch, established that microorganisms could be the cause of diseases. As a result, public health officials recognized the importance of sanitation in preventing the spread of infections. With this new understanding, cities began to focus on enhancing their infrastructure to manage waste more effectively. Improved wastewater treatment systems were crucial in reducing the presence of pathogens in water supplies, thus lowering the incidence of waterborne diseases such as cholera and typhoid. This marked a significant shift in public health policy, prioritizing hygiene and sanitation based on scientific evidence. The other options do not directly relate to advancements prompted by germ theory. Surgical instruments were improved due to various factors including anesthesia and surgical techniques, but not specifically due to germ theory. Homeopathy and psychic medicine emerged from different traditions and were not significantly influenced by the scientific findings related to germs at that time.

**7. What was the final recognition received by Fleming, Florey, and Chain for their work on penicillin?**

- A. They were awarded a Nobel Prize**
- B. They received a presidential medal**
- C. They were published in multiple journals**
- D. They founded a medical school**

Fleming, Florey, and Chain's groundbreaking work on penicillin culminated in them being awarded the Nobel Prize in Physiology or Medicine in 1945. This prestigious recognition was a significant acknowledgment of their contributions to the development of antibiotics, which transformed the treatment of bacterial infections and had a profound impact on medicine. The Nobel Prize not only honored their individual achievements but also highlighted the collaborative nature of scientific advancement. This award solidified the importance of penicillin as a pivotal medical breakthrough in the 20th century, illustrating the immense potential of scientific research to improve healthcare. Other responses do not accurately reflect the recognition given for their specific contributions to penicillin.

**8. What catastrophic event allowed John Snow to further prove his theory about cholera?**

- A. A major flood in London.**
- B. The Great Plague.**
- C. The 1854 cholera outbreak.**
- D. A significant drop in public health funding.**

The 1854 cholera outbreak was pivotal for John Snow in proving his theory about the transmission of cholera through contaminated water. During this outbreak, Snow meticulously mapped the cases of cholera in London and observed a striking correlation between the locations of the cases and a particular public water pump on Broad Street. By conducting a detailed investigation, he demonstrated that those who used water from this pump were more likely to contract cholera, while those who sourced their water elsewhere remained largely unaffected. This event provided Snow with empirical evidence to support his hypothesis that cholera was not spread via air, as was widely believed at the time, but rather through contaminated water. His groundbreaking work during the 1854 outbreak laid the foundation for modern epidemiology and significantly advanced public health measures, leading to improvements in water and sanitation systems. This outbreak served as a turning point in understanding infectious diseases and effectively showcased the vital link between water quality and public health.

**9. What discovery did Howard Florey and Ernst Boris Chain contribute to during World War II?**

- A. Mass production of morphine**
- B. Mass production of penicillin**
- C. Mass production of vaccines**
- D. Mass production of antiseptics**

Howard Florey and Ernst Boris Chain played a crucial role in the mass production of penicillin during World War II. Their work followed the initial discovery of penicillin by Alexander Fleming. While Fleming had identified penicillin's antibacterial properties, it was Florey and Chain who developed methods to produce it in large quantities, making it widely available for use in treating infections among soldiers and civilians alike. Their research demonstrated how penicillin could be extracted and produced efficiently, addressing the urgent need for effective treatments during the war when bacterial infections were common and often fatal. This breakthrough not only transformed the treatment of infections at that time but also laid the foundation for the antibiotic era that followed, significantly impacting medicine. The other options involve important medical developments but are not related to Florey and Chain's contributions. Morphine, vaccines, and antiseptics were established areas of treatment prior to their work with penicillin and did not involve the same transformative mass production efforts they undertook with antibiotics.

**10. What was one major consequence of the introduction of the smallpox vaccine?**

- A. Significant reduction in smallpox cases and eventual disease eradication**
- B. Increase in surgical success rates**
- C. Establishment of germ theory**
- D. Development of antibiotics**

The introduction of the smallpox vaccine had a transformative impact on public health, leading to a significant reduction in smallpox cases and ultimately resulting in the eradication of the disease. Edward Jenner's pioneering work in the late 18th century provided a means to immunize individuals against smallpox, which had been a devastating disease for centuries. As vaccination programs expanded, the incidence of smallpox dropped dramatically across the globe. The World Health Organization launched a successful global smallpox eradication campaign in the 20th century, which culminated in the declaration of smallpox as the first disease to be eradicated from the human population in 1980. This monumental achievement underscores the effectiveness of the smallpox vaccine and illustrates how vaccination can control and eliminate infectious diseases, making it one of the key milestones in the history of medicine. In contrast, the other options, such as an increase in surgical success rates, the establishment of germ theory, and the development of antibiotics, relate to different advancements in medical science that were significant but did not directly stem from the introduction of the smallpox vaccine.