1.10 The Cholera Epidemic of 1854 and John Snow's Broad Street Investigation: Test Pack

EDEXCEL 1HI0 · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. You are advised to spend about 15 minutes on this pack.

1 Give the year of the major cholera outbreak in Soho that John Snow investigated.

(Total for Question 1 is 1 mark)

2 State two actions taken by John Snow during his Broad Street investigation of the 1854 outbreak.

(Total for Question 2 is 2 marks)

3 Name the local clergyman who helped John Snow by interviewing residents and collecting information about victims and their water sources.

(Total for Question 3 is 1 mark)

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4 Explain two ways in which John Snow's Broad Street investigation was similar to later epidemiological investigations in public health.

(Total for Question 4 is 4 marks)

5 Describe two practical steps Snow or his supporters took to demonstrate the pump was unsafe during the 1854 investigation.

(Total for Question 5 is 4 marks)

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Mark scheme · 1.10 The Cholera Epidemic of 1854 and John Snow's Broad Street Investigation: Test Pack

Question 1

1854	**B1**

Answer: 1854

Question 2

he plotted cholera cases on a map to show clustering	**B1**
he persuaded local officials to remove the pump handle on Broad Street	**B1**

Answer: He plotted cases on a map to show clustering, and he persuaded local officials to remove the Broad Street pump handle.

Question 3

Henry Whitehead	**B1**

Answer: Henry Whitehead

Question 4

identifies similarity, e.g. use of mapping or data to find patterns	**B1**
supporting detail for B1, e.g. later epidemiology also uses geographic mapping and statistical analysis to locate sources of disease	**B1**
identifies a second linked detail, e.g. reliance on case investigation and interviews	**B1**
supporting detail for the second detail, e.g. modern investigations still gather individual exposure histories to confirm links between cases and a suspected source	**B1**

Answer: Both Snow's work and later epidemiology use mapping to detect spatial patterns and collect case histories to link victims to a suspected source.

Question 5

identifies step 1, e.g. plotting cases on a detailed street map	**B1**
supporting detail for step 1, e.g. placing a dot for each death to show the cluster around Broad Street	**B1**
identifies step 2, e.g. persuading local authorities to remove the pump handle	**B1**
supporting detail for step 2, e.g. the removal physically stopped people using that pump and allowed comparison with case numbers afterwards	**B1**

Answer: They plotted deaths on a map to show clustering around Broad Street, and they persuaded authorities to remove the pump handle, reducing its use.

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