

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										



General Certificate of Education
Advanced Level Examination
Specimen Paper

Health and Social Care HSC10

Unit 10 Diagnosis, Treatment and Preventative Strategies

2012

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
TOTAL	

You will need no other materials.

Time allowed

- 2 hours

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.
- If you need extra paper, use the Supplementary Answer Sheets.

Information

- The maximum mark for this paper is 80.
- The marks for questions are shown in brackets.

Version 1

HSC10

Answer **all** questions in the spaces provided.

- 1** William went to see his GP with pains in his chest and slight breathlessness. He asked William a series of questions about the pain and how long he had been feeling unwell. He used palpation and a stethoscope to examine William's chest. He also took William's blood pressure. The GP decided that William should be sent for electrocardiography.

- 1 (a)** Briefly explain why the GP asked William some questions about the pain in his chest.

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(2 marks)

- 1 (b)** Describe how the GP would measure William's blood pressure. Include the scientific principles of this procedure in your answer.

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(7 marks)

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(2 marks)

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(3 marks)

(6 marks)

- 2** The following data represent the combined results of the UK breast screening programmes for the year April 2009 to March 2012.

Screening Activity

	2008/09	2009/10	2008/09	2009/10
Age Range	50-70	50-70	45-74	45-74
Total number of women invited	2,642,511	2,662,298	2,702,876	2,754,885
Acceptance Rate	73.8%	73.5%	73.7%	73.3%
Number of women screened (invitation)	1,947,424	1,954,815	1,990,534	2,018,403
Number of women screened (self/GP referral)	44,070	43,410	87,661	84,467
Total number of women screened	1,991,494	1,998,225	2,078,195	2,102,870
Number of cancers detected	15,673	15,517	16,535	16,476

NHS Breast Screening Programme Annual Review 2011.

- 2 (a)** What conclusions can be drawn from the data in the table above?
The quality of written communication will be assessed in this question.

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(9 marks)

2 (b) Joanne is a 50 year old woman and has been invited for her first mammogram.

Describe the procedure for a mammogram. Refer to the scientific principles in your answer.

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(5 marks)

2(c) Name and describe **two** other adult screening tests.

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(6 marks)

3 Rachel, a nervous first-time mother has a son called Samuel who is due to have his first vaccinations. Two of the diseases he will be vaccinated against are diphtheria and tetanus.

3 (a) Identify the cause of diphtheria and tetanus and **two** modes of transmission for each.

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(6 marks)

3 (b) Describe the symptoms of diphtheria.

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(4 marks)

3 (c) Rachel is worried about the side-effects of some vaccines and has a discussion with Natalie the practice nurse. Explain four possible side-effects that Natalie may discuss with Rachel.

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(4 marks)

3 (d) Outline how immunisation works.

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(6 marks)

4 Drug treatments treat the body using chemical substances that alter the function of one or more body organs or by changing the process of disease. Drugs can be a very effective treatment.

4(a) Name **three** different methods that can be used to administer drugs and evaluate each one.

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(9 marks)

4(b) Give the three different types of name for medical drugs.

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(3 marks)

4 (c) Discuss the ethical issues associated with treating individuals whose lifestyle might reduce the effectiveness of the treatments they receive. Refer to **two** lifestyle choices in your answer.
The quality of written communication will be assessed in this question.

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(8 marks)

END OF QUESTIONS

There are no question printed on this page

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ANSWER IN THE SPACES PROVIDED**