Surname	Centre Number	Candidate Number
Other Names		2



# GCE AS/A level

1626/01

### **HEALTH AND SOCIAL CARE**

Unit 6 – Understanding Common Illnesses, Diseases and Disorders

P.M. TUESDAY, 24 May 2011  $1\frac{1}{2}$  hours

For Examin	er's use only
1.	
2.	
3.	
4.	
Total	

#### INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided in this booklet.

#### INFORMATION FOR CANDIDATES

Each question carries 25 marks.

The number of marks is given in brackets at the end of each question or part-question.

You are reminded of the need for good English and orderly, clear presentation in your answers. Assessment will take into account the quality of written communication used in your answers.



## Answer all questions in the spaces provided.

1.	Agin dege	ıg cau nerati	ises many changes in the body, as these changes accumulate they can we diseases or disorders.	n result in
	(a)	(i)	Define the term disorder.	[2]
		(ii)	Explain the term degenerative as applied to diseases and disorders.	[2]
	(b)	(i)	Describe how osteoporosis affects the structure of bones.	[4]



(ii)	Describe a diagnostic test for osteoporosis.	[3]
(iii)	Explain how the menopause makes older women especially vulnerable osteoporosis.	e to [2]
(iv)	Describe one form of treatment for osteoporosis, and explain how it works.	[2]



1626 010003

	Describe the stages in drinking water treatment.	[6]
(i)	Describe the stages in drinking water treatment.	[0]
(11)	Touristic and a 14 is in a set of the annual defaultion and a second defaultion of the second defaultion and the second de	
(ii)	Explain why it is important to prevent drinking water sources be contaminated with sewage	ecoming
(ii)	Explain why it is important to prevent drinking water sources be contaminated with sewage.	ecoming [4]
ii)	Explain why it is important to prevent drinking water sources be contaminated with sewage.	ecoming [4]
(ii)	Explain why it is important to prevent drinking water sources be contaminated with sewage.	ecoming [4]
	Explain why it is important to prevent drinking water sources be contaminated with sewage.	ecoming [4]
	contaminated with sewage.	ecoming [4]
	contaminated with sewage.	ecoming [4]
	contaminated with sewage.	ecoming [4]
	contaminated with sewage.	ecoming [4]
	contaminated with sewage.	[4]



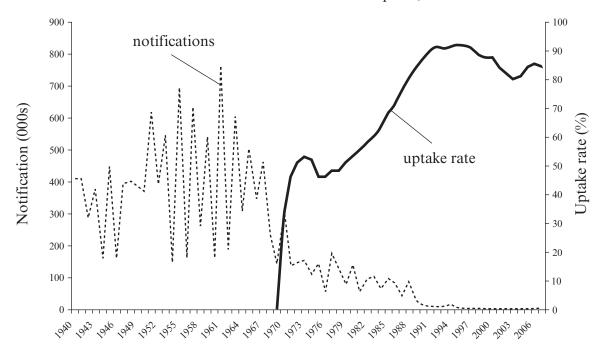
(i)	Describe the standard schedule for MMR vaccination in the UK.	[3]
(1)	Describe the standard sendance for 1411411 vaccination in the C11.	[2]
(ii)	Explain how vaccination provides long term immunity to an infectious disc	ease. [3]
\ 11 /		
(11)		

2.

1626

(b) Study the chart below and answer the following questions.

Measles notifications and vaccination uptake, 1940-2007



Source: Health Protection Agency (HPA) epidemiological data HPA Approved

vaccination became widely available around 1970.	[4]

Describe the pattern and numbers of measles infections in the UK before



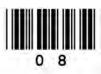
(i)

	escribe the pattern and numbers of measles infections after 1970.	[4]
(iii) Ex	splain how the MMR vaccination programme could have been effducing measles infection rates in the UK population.	ective in [2]
Outline	the issues that may concern individuals about having vaccinations.	[3]
Outline	the issues that may concern individuals about having vaccinations.	[3]
Outline	the issues that may concern individuals about having vaccinations.	[3]
Outline	the issues that may concern individuals about having vaccinations.	[3]
Outline	the issues that may concern individuals about having vaccinations.	[3]
Outline	the issues that may concern individuals about having vaccinations.	[3]

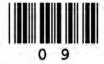


1626 010007

(d)	Discuss how individuals refusing vaccination could affect the notification statistics measles.	for [6]



3.	Bloo	d pres	sure testing is a screening test applied to mature adults.
	The	result	of a blood pressure reading is usually written down as follows: $\frac{120}{80}$
	(a)	(i)	Explain what each of these figures represents. [3]
		(ii)	Explain how high blood pressure increases the risks associated with cardiovascular disease. [3]



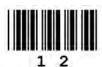
(i)	Describe how obesity is a risk factor for coronary artery disease.	[3
(ii)	Explain how height/weight measurements are used to calculate Body (BMI).	Mass Inde



(iv)	Discuss how the information obtained from blood pressure and height/weight screening can be used to intervene to reduce the risk of cardiovasular disease. [6]
(v)	Evaluate the costs and benefits to society as a whole of using screening programmes to reduce the risk of cardiovascular disease. [6]
(v)	



	(i)	Describe or draw a labelled diagram of the main features of a bacterial cell.	[4]
(	(ii)	Describe four symptoms of either Chlamydia or MRSA.	[4]
(i	iii)	Explain how Chlamydia or MRSA, is transferred between individuals.	[2]



(i)	Explain the problems that may be caused by "carrier" individuals for control		
	transmission of either Chlamydia or MRSA.		
(ii)	Evaluate a range of strategies that could be used to reduce transmission of exchlamydia or MRSA by "carrier" individuals.		
	Your answer should include an assessment of their likely effectiveness in terr practicality, cost and success.		



11011 1101 1101 1101 1101	

