2013

## HUMAN BIOLOGY 2A NUTRITION ASSSESSMENT

	Name: Answers. Mark: /20
	Read the information you have been given and complete the following questions on the paper provided.
	1. One of the ten "Dietary Guidelines for Australians" states:  'Eat a diet low in fat – in particular low in saturated fat.'  a) What would be an effect on a person eating a high proportion of fats compared to carbohydrates and proteins? Explain why.
p39	They would put on weight ()  Fats yield more /37kg/ twice as much energy
	b) Saturated fats are mentioned in particular. Why are saturated fats different to unsaturated fats? What is one effect they would have on the body? In the factor of Subscriber Talky field.
7548	Sorturated fats have all the carbons joined to hydrogens Unsaturated can hold more hydrogens (1)
	High blood cholisterol which leads to Candiovascular disease.
	c) Why should you not exclude fats entirely from your diet? (1)
p 38	They contain essential fatty acids that  cells must have, have tat-soluble vitamins.
	2. Take-away foods are obviously high in fats, particularly saturated fats, but can cause other problems as well. Describe other symptoms (apart from excess fat intake) that they could produce with long term consumption.  (4)
p 49	High in salt: causes high blood pressure. () Low Fibre: high blood tholesterol + blood)
Sychis	Low Fibre: high blood tholesteros + blood)
Areche he he	alimentary canal such as bowel cancer I
hickers he have not	how Vitamin A: reduced resistence to
however	disease, poor night vision
	Low Vitamin C: Scurry
	2 = ) The appearance of a girl will change over her lifetime. What is the kileigula
	3a) The energy requirements of a girl will change over her lifetime. What is the kilojoule difference between her requirements at 16 years of age compared to when she is 65?
0.10	16 yrs 8700 - 10,200
py	64 yrs 6900 - 7,900
* (	64 yrs 6900 - 7,900 ould also describe in terms of proportion of

142 P 39	b) What factors could cause this difference? Less physical activity at 65 M (1) Comer with of 16 yr old (1)	2
p39,	c) If energy in excess of her requirements is consumed she will put on weight. How much excess energy would cause her to put on 3 kg of weight? (Show your calculation) ( $32,000  \text{ks} \times 3  \text{kg} = 96,000  \text{kg}$	1)
p4c	d) Explain why this increase in weight would affect her overall energy requirements? (  Larger body size riguine more energy to move their mass.	(1)
table pSI	4. Scurvy is one of the oldest diseases known to humankind. The symptoms are described Egyptian writings dating to 1500BC and are also mentioned in the Old Testament of the B In the days of sailing ships sailors were very commonly afflicted with scurvy. In 1600 a Brit report estimated that about 10,000 sailors had died from the disease in the previous 20 yea) What is the cause of scurvy?	ible tish ears
p51	Sore gums bleeding around bones,  delayed healing  c) Why were the sailors more likely to be affected by scurvy than others in the populations	
) <sup>±</sup> .	Fush fruit + veg not available on long Sta voyages.  d) Scurvy now occurs in situations where people depend on food aid. Why would this be s	?·
557	Food aid does not contain frush food)  just pusured or dry food.  e) Suggest what providers of aid could do to reduce the risk of people developing scurvy.	
1	Supply cities fruits fresh food (1) Supply vitamin Cadditives / tablets (1)	2)
- not	pedgement dinunied i l i anticle.	_