

**Practice test mark scheme Foundation**

Q		Expected answers	Marks	Additional guidance
1	a i	1200	1	allow error carried forward from bi in order
	a ii	2400	1	
	b i	drank the right amount	1	
	b ii	water gained equals water lost	1	
	c	more urine water	3	
			<b>7</b>	
2	a	sensor linked to thermometer processor linked to thermostat effector linked to heating element	2	all 3 correct = 2 marks 1 or 2 correct = 1 mark
	b	negative feedback	1	
			<b>3</b>	
3	a	increases – A no effect – B decrease – C and D	3	1 mark for each correct column
	b	by the blood	1	
4	a	heat stroke hypothermia homeostasis	3	in order  any 2 points accept alternatives e.g. skin hairs erect, vasoconstriction  do not accept treatments for hypothermia
	b	<ul style="list-style-type: none"> <li>• shivering</li> <li>• increases respiration</li> <li>• energy transferred to (neighbouring) tissues</li> </ul>	2	
	c	any reasonable treatment for: dehydration – e.g. plenty of fluids sunburn – e.g. burn cream exhaustion – e.g. rest, food	1	

**TOTAL**      20

## Practice test mark scheme Higher

Q		Expected answers	Marks	Additional guidance
1	a	increases – A no effect – B decrease – C and D	3	1 mark for each correct column
	b	by the blood	1	
			<b>4</b>	
2	a	islets of Langerhans	1	
	b	insulin/glucagon	1	
			<b>2</b>	
3	a	active site	1	either order
	b	35°C	1	
	c i	(A) FDCBE F before D (1); D before C (1); C before B (1); B before E (1)	4	
		ii	D F	
			<b>8</b>	
4	a	• shivering • vasoconstriction	2	accept descriptions accept correct alternatives e.g. skin hairs erect  do not accept treatments for hypothermia
		b	any reasonable treatment for: dehydration – e.g. plenty of fluids sunburn – e.g. burn cream exhaustion – e.g. rest, food	
	c		hypothalamus detects high salt concentration in blood	
		less ADH released less water reabsorption in kidney/weaker urine produced	1 1	
			<b>6</b>	

TOTAL 20