Hormones (pituitary, thyroid, adrenaline, insulin)

Q1. (2020)

		in this order only		AO1
04.2	thyroid (gland)		1	4.5.3.1
	adrenal (gland)		1	
	ovary / ovaries		1	

Q2. (2021)

A)

01.1	endocrine (system)	ignore hormonal (system)	1	AO1 4.5.3.1

B)

01.3	A		1	AO1 4.5.3.1

C)

01.4	(in / through / via) blood	allow (in / through / via) bloodstream allow (in / through / via) plasma allow (in / through / via) blood vessels **or** named blood vessel	1	AO1 4.5.3.1

Q3. (2021)

05.5	(adrenaline) increases heart rate	allow increases blood flow	1	AO1
	(which) increases oxygen / glucose to brain / muscle (cells)		1	AO1
	(which) increases rate of respiration		1	AO2
	(so) releasing more energy for (faster / more) muscle <u>contraction</u>	allow (so) releasing more ATP for (faster / more) muscle <u>contraction</u> do **not** accept energy produced / made / created	1	AO2 4.5.3.6 4.5.2

Q4. (2023)

A)

06.5	pituitary (gland)		1	AO1 4.5.3.1

B)

06.6	(adrenal glands) release / produce adrenaline		1	AO1
	(to) increase heart rate		1	AO1
	(so) more / faster delivery of oxygen **and** glucose to brain / muscles		1	AO2
	(because) more oxygen / glucose needed for respiration		1	AO2
	to move muscles to increase body temperature **or** to release energy / heat to increase body temperature	allow for shivering to increase body temperature do **not** accept energy is made / produced / created ignore flight or fight	1	AO3 4.5.3.6 4.5.3.1 4.5.1

C)

06.7	(decreasing body temperature causes thyroid gland to) release / produce thyroxine		1	AO2 4.5.3.6
	(which) increases / stimulates (basal) metabolic rate	allow (which) increases metabolism allow (which) increases respiration allow (which) increases reactions in cells	1	
	(so) increasing body temperature which decreases the release / production of thyroxine		1	

Q5. (2024)

06.1	pituitary		1	AO1 4.5.3.1

Q6. (2024)

06.2	increased blood flow to muscles		1	AO1 4.5.3.6