QUESTION 3

3.1 3.1.1 Pituitary gland/hypophysis✓ (1)3.1.2 B - TSH/thyroid-stimulating hormone✓ (1) Controls metabolism✓ 3.1.3 Influences heart rate- Influences functioning of central nervous system (2)(Mark first TWO only) (a.my 2) High levels of thyroxin is detected√by the hypophysis 3.1.4 which leads to a decrease in the secretion of TSH Activity of thyroid is slowed down ✓ /less thyroxin produced (5) Thyroxin level drops

✓ to normal (9)3.2 3.2.1 A - Sweat pore✓ B - Sweat gland ✓ C - Blood vessel√ (3) 3.2.2 Impulses sent from hypothalamus ✓ to C (blood vessels) Blood vessels dilate / vaso dilation occurs More blood carrying heat comes to the skin surface and therefore more heat is lost from the body-(any 3) B (Sweat glands) produce more sweat√ When sweat evaporates from the skin surface < More heat is lost from the skinleading to a drop in the body temperature ✓ (a.mv 3) (6)(9)

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