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Endocrine glands produce hormones.

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Hyperthyroidism is caused by an overactive thyroid gland.

Suggest what would happen in the body of a person with hyperthyroidism.

[3 marks]

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. 2

Describe the roles of FSH and LH in the menstrual cycle.

[2 marks]

1 0 . **3** The combined pill is a contraceptive that contains progesterone **and** oestrogen.

The 'mini-pill':

- is a contraceptive that **only contains** the progesterone hormone
- has to be taken at the same time each day to prevent pregnancy.

The success rate of the mini-pill in preventing pregnancy is lower than that of the combined pill.

Explain why missing a dose of the mini-pill would reduce the success rate of the mini-pill.

[4 marks]

END OF QUESTIONS

Question 10

Question	Answers	Extra information	Mark	AO / Spec. Ref.
10.1	too much thyroxine is released into the blood		1	AO1/1 4.5.3.7
	which raises BMR		1	AO1/1 4.5.3.7
	causing increase in formation of glycogen / lipids / proteins or increase in rate of respiration or increase in breakdown of excess proteins		1	AO1/1 4.5.3.7
10.2	FSH causes eggs to mature and stimulate ovaries to produce oestrogen		1	AO1/1 4.5.3.4
	LH stimulates the egg to be released		1	AO1/1 4.5.3.4
10.3	(missing a dose causes a) dip / drop in progesterone levels		1	AO2/1 4.5.3.4
	(therefore) FSH is not inhibited anymore		1	AO2/1 4.5.3.4
	(therefore) LH is not inhibited anymore		1	AO2/1 4.5.3.4
	(and consequently) an egg is matured and released		1	AO3/1b 4.5.3.4
Total			9	