**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task 12 Solutions**

**Question 1 20 marks**

**(a)**

* Endocrine system consists of ductless glands that secrete homones to communicate to cells (1)
* The hypothalamus releases rfFSH or GnRH(1) which acts on anterior pituitary it releases FSH(1)
* FSH stimulates growth of the follicle(1) on the ovary
* Follicle produces oestrogens (1)
* Oestrogen build up endrometrium lining (1)
* Increase oestrogen in blood is detected by hypothalamus negative feedback on FSH release(1), positive feedback on LH release(1)
* it releases rfLH(1).
* rfLH acts on Anterior pituitary gland it release LH(1)
* inhibits release of rfFSH pituitary gland stops producing FSH (1)
* Increase LH matures follicle and results in ovulation.(1) Follicle forms the corpus luteum(1)
* Corpus luteum produces progesterone and oestrogen.(1)
* Progesterone maintains endometrium (1)
* Progesterone has a negative feedback on production of LH(1)
* In non-pregnant woman CL begins to degenerate(1)
* Decreasing progesterone and oestrogen levels (1)
* Endometrium breaks down menstruation begins (1)
* Low levels detected by hypothalamus- cycle begins again (1)

**Comments**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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