Please read the questions carefully. Put your name on the back of this page.

1.) (1 pt) What is the primary method of human birth control in the world.
Lactational anestrus

2.) (1 pt) Lactational anestrus completely suppresses cyclicity in the rumen but only delays cyclicity in the
primary __________ smell of calf __________.

3.) (1 pt) The primary mediator of lactational anestrus in cattle is __________ involution __________.

4.) (2 pt) If you wanted to get your cattle re-bred earlier following parturition, what two management strategies might you employ.
Pulling calves for hand rearing, or providing a high feed diet.

5.) (1 pt) What is a "silent" ovulation and what causes it?
Ovulation without a estrus display. Caused by failure to ovulate
estrus by transfer or low hormonal output. By priming.

6.) (3 pt) Describe the physical and endocrine changes which result in ovulation.
Physical: Contraction of ovarian muscles, thinning of ovarian wall,
increase in pressure of ovary, formation of stigma.
Endocrine: Release of PGE and PGF₂ and oxytocin to increase
blood pressure, and thin ovarian cortex.

Bonus: (5 pts)

The word "estrous" originated from the Greek word "oistros" meaning __________ frenzy __________.
What is the primary behavior difference between animals with estrous versus menstrual cycles?
Estrous will only accept males at certain times (estrus), normal will accept at
any time.
The initial stages of oogenesis are independent of pituitary hormones, whereas the final stages
are dependent upon LH and GnRH PGF₂.

A century ago the English zoologist __________ Taylor __________ described the estrous cycle.

Give an example of a coitus-induced and a spontaneous oovulator.
Coitus-induced - Rabbit __________ Spontaneous - Cow __________.