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

1.) (8 pt) What are the signals for maternal recognition of pregnancy in the cow, sow and mare and human and how do they work.
   1) Cow = Bovine interferon tau stops up-regulation of 
      
      CTR so no P450x3 produced
   2) Sow = Estrogen - stops exportation of PGF2α into uterine venous system. Instead goes into uterine lumen
   3) Mare = Uterine patrolling and Small unknown peptide ⇒ stops production of PGF2α ⇒ mostly unknown
   4) Human = hCG ⇒ protects CL from luteolysis

2.) (1 pt) Name the two broad classifications of placentas in domestic farm animals.
   Cotyledonary
   Diffuse

3.) (1 pt) Define Placentome.
   A placentome is a connection between the placenta and the maternal endothelium, allows nutrient exchange between the two.
   Bonus: (1 pt)
   What is the signal for pregnancy recognition in the dog?
   Unknown because the uterus and ovary don't really work together