

*Hand Written Answers, attach additional pages as needed*

- A. Compare and contrast meiosis (both male and female) and mitosis regarding
- Location
  - Steps (Draw with labels)
  - End results
  - Problems
- B. Give two (2) examples of a genetic ABNORMALTIES based on the following patterns:
- Dominant
  - Recessive
  - Incomplete or Co Dominant
  - Sex Linked
- C. Draw and label the four extra embryonic membranes and give their function
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- D. Name ALL the hormones involved with reproduction and give their function.
- E. Draw with labels a blastula and give the function of the four major parts.
- F. Regarding gastrulation
- Properly define this process regarding location and end result
  - Name the three germ layers and give two specific adult tissue examples for each layer
- G. Name a *Unique*, **Specific**, and Different problem associated with the following:
- ovaries
  - testes
  - fallopian tubes
  - prostate
  - penis
  - uterus
  - vagina
  - epididymis

H. Name the three stages of labor, describe what is happening, and name a hormone involved

I. Name two (2) circulatory structures that are involved in fetal bypass circulation

J. Properly define the following terms:

1. allele
2. homozygous
3. heterozygous
4. haploid
5. diploid
6. phenotype
7. genotype
8. clone

K. Draw and label the structure of a chromosome.

L. Name four enzymes involved with DNA and/or RNA and give their actions/use

M. Name four structures that might be found in a teratoma.

N. Set up a Punnett Square for the following dihybrid cross

Black hair is dominant over blonde hair and Brown eyes are dominant over blue eyes.

Heterozygous male with black hair and brown eyes x female with blonde hair and blue eyes