NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HONORS BIOLOGY-EPIGENETICS

MULTIPLE CHOICE:  
Choose the answer that best completes the statement.

Epigenetic changes involve adding or removing \_\_\_\_\_\_\_\_\_\_\_\_\_ tags to DNA.  
 A. glycoprotein  
 B. RNA  
 C. methyl  
 D. protein  
  
Adding methyl tags to DNA turns genes \_\_\_\_\_\_\_\_\_\_\_.

A. ON

B. OFF

Epigenetics may play a role in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A. embryonic development  
 B. puberty  
 C. pregnancy  
 D. cancer  
 E. All of the above

TRUE/FALSE:   
Choose T if the statement is TRUE. Choose F if the statement is FALSE.   
If the statement is FALSE, make corrections to the underlined words to make it a TRUE statement

T F Environmental factors can cause changes in your epigenome by changing the gene code in the DNA.

T F Epigenetic changes can be passed on to offspring and even affect grandchildren.

T F As twins age, the pattern of the methyl tags on their DNA stays the same.

SHORT ANSWER:  
  
List some environmental influences that may add or remove “methyl tags” on DNA?

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