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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