Name $\qquad$

Read pdf Ch11 and answer the questions below.
Due in class on Thrusday, Oct 26th, in class or you can complete the quiz online.
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) The process by which genotype becomes expressed as phenotype is $\qquad$ _.
2) $\qquad$
A) gene regulation
B) transcription
C) translation
D) gene expression
3) Bacterial RNA polymerase binds to the $\qquad$ -
A) proto-oncogene
B) promoter
C) regulatory gene
D) operator
4) In prokaryotes, the production of a single RNA transcript for a group of related genes is under the control of $\qquad$ _.
A) transcription factors
B) an operon
C) enhancers
D) a signal transduction pathway
5) In an operon, the $\qquad$ acts as an on/off switch.
A) activator
B) promoter
C) repressor
D) operator
6) Which of the following turns off transcription by binding to the operator?
A) RNA polymerase
B) promoter
C) lactose
D) repressor
7) Repressors act by blocking the binding of $\qquad$ to the operator.
A) DNA polymerase
B) RNA polymerase
C) promoters
D) the operon
8) $\qquad$
9) $\qquad$
10) $\qquad$
)
11) $\qquad$
12) $\qquad$
13) $\qquad$ cells?
A) transcription factors
B) RNA splicing
C) gene operons
D) attachment of RNA polymerase to the promoter
14) Introns are $\qquad$ .
15) $\qquad$
A) expressed DNA sequences
B) noncoding DNA sequences
C) the product of RNA splicing
D) DNA sequences to which activators bind
16) While examining a human cell that functions normally, you determine that it has 45 functional
17) chromosomes and one chromosome that is almost completely inactive. You immediately decide that it is very likely that this cell $\qquad$ —.
A) is lacking a chromosome
B) came from a normal human female
C) is a gamete
D) will become cancerous if one or two more genes are mutated
18) In eukaryotic cells, repressor proteins inhibit transcription by binding to $\qquad$ .
19) $\qquad$
A) silencers
B) promoters
C) enhancers
D) operons
