

Molecular- final Wareed 2018

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1)the most efficient point of gene expression regulation is :

Transcription initiation

2)one of the following is not a gene regulatory region :

Repressor

3)which of the following does not induce gene expression :

Morpholino

4)one of the following is incorrect regarding ApoB48:

ApoB has 48 codons

5)which of the following is true about histones :

a)the amino acid sequences of histone proteins are very similar in different organisms

b)all histones form part of the nucleosome core particles in chromatin

c)histones are widely found in prokaryotes

d)histones are acidic proteins

e)histones are found in animal chromatin but not in plant cells

6)one of the following is wrong regarding gene expression :

It regulates cell's apoptosis

7)a step that does not occur in cancer :

Breaking of GTP into GDP

8) a protein that leads cell cycle to arrest :

P53

9) one of the following is wrong regarding XP :

The patient has a deficiency in MMR

10) the mutation that results from a stop codon :

Nonsense mutation

11) the word that describes when a ligand is suitable for a receptor :

Specificity

12) satellite cells are :

Unipotent

13) hormones and ligands are considered as :

First messengers

14) annealing step is :

Binding of primers to newly separated DNA strand

15) DNTP annealing step occurs at:

Elongation/ extension

16) used for detection of mRNA :

Northern blot

17) guanine after deamination :

Xanthine

18) one of the following is not a PCR ingredient :

ddNTPs

19) topoisomerases:

a) change the degree of supercoiling of a DNA molecule but not its linking number of DNA

b) occur in bacteria but not in eukaryotes

c) require energy from ATP

d) always change the linking number in increments of 1

e) can act on single stranded DNA circles

answer : c

20) affects DNA melting temperature :

C-G content

21) nuclear receptors :

Steroids

22) one of the following is incorrect about Sanger sequencing :

ddNTP content is much higher than dNTP content

23) one of the following is incorrect about Z form DNA :

Narrow but very deep

24)whats the difference between deoxy ribose and ribose sugar :

Deoxy ribose has onle H at C2

25) one of the folloeing is incorrect about type 1 restriction enzyme :

Separate endonuclease and methylase activity

26) one of the folloeing is incorrect about helix turn helix motif :

Alpha 2 is the recognition site

27)type 2 restriction enzyme :

Cuts within recognition sequence

28)repressors affect the celland bind toin eukaeyotes and toin prokaryotes :

Negatively/ silencers / operators

29)burkitts lymphoma :

Translocation in chromosome

30)DNA ishas a diameter of ,makes aturn every, the distants between nucleotides is

A righthanded helix / 2nm / 3.4nm /3.4angstrom

31)) one of the folloeing is correct about depurination :

Base pair deletion

32)enzyme that depends on mRNA to make cDNA :

Reverse transcriptase

33) one of the following is correct about regarding reverse transcriptase :

Make cDNA from mRNA

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