NEET

MOLECULAR BASIS OF INHERITANCE
NEET PYQ WITH ANSWERS

Molecular Basis of Inheritance NEET PYQ

DNA fragments are

 A. Negatively charged

B. Positively charged

C. Neutral

D. Depends on the size

Correct answer: A

Commonly used vectors for human genome sequencing are

A. T/A cloning vectors

B. Expression vectors

C. T-DNA

D. BAC and YAC

Correct answer: D

The final proof for DNA as the genetic material comes from the experiments of _____

A. Macleod and Avery

B. Griffith

C. Harvey Mcbride

 D. Hershey and Chase

Correct answer: D

Spliceosomes are not found in the cells of

A. Bacteria

B. Animals

C. Plants

D. Fungi

Correct answer: A

If there are 999 bases in an RNA that codes for a protein with 33 amino acids and the base at position

901 is deleted such that the length of the RNA becomes 998 bases, how many codons will be altered

A.

22

B. 11

 C. 44

D. 33

Correct answer: D

Which of the following rRNA act as structural RNA as well as ribozymes in bacteria?

A. 23 srRNA

B. 13 srRNA

C. 33 srRNA

D. 73 srRNA

Correct answer: A

Synthesis of nucleic acids always takes place in

A. 3'- 5' direction

B. 5'- 3' direction

C. Both ways

D. in any direction

Correct answer: B

The equivalent of a structural gene is_____

A. Operon

B. Muton

C. Cistron

D. None of the above

Correct answer: C

Taylor conducted the experiments to prove semi-conservative mode of chromosome replication on

A. Vicia faba

B. Vinca rosea

C. E.coli

D. Drosophila

Correct answer: A

The given mRNA sequence codes for a polypeptide. This polypeptide will contain how many different amino acids?

A. 3

B. 4

C. 5

D. 6

Correct answer: B

Which of the following RNAs is the most abundant in animal cells?

A. tRNA

B. rRNA

C. mRNA

D. None of the above

Correct answer: B

The association of histone H1 with a nucleosome indicates ____

A. DNA is condensed into chromatin fibers

B. Transcription is in progress

C. DNA replication is in progress

D. DNA double helix is exposed

Correct answer: A