

Questions and Answers on Microbiology Essay

Messenger RNA (mRNA) is a group of the ribonucleic acid molecules that transmit hereditary information to the ribosome from the DNA to help in the specification of the sequence of the amino acid of the proteins upon which genes are expressed. After the transcription of the pre-mRNA through the RNA polymerase, the mature and processed mRNA is converted into a polypeptide chains with amino acids as its building blocks (Bullock, & Manias, 2011). Within the DNA, the genetic information contained in the mRNA is in the succession of nucleotides, which are organized into codon, each comprising of three base pairs. Every codon is a code for particular amino acid, with the exception of the terminal codons, which end the synthesis process. The translation process requires two different kinds of RNA, which are Transfer and Ribosomal RNAs. The transfer RNA mediates the identification of codons to the resultant amino acids, whereas rRNA acts as the central component for the manufacturing of proteins within the ribosomes. The short presence of mRNA molecules starts with transcription and at last ends with their degradation. Amid its existence, the molecules of an mRNA may likewise be altered, transported and processed preceding transcription (Marieb, 2015). Molecules of eukaryotic mRNA often frequently require in-depth processing and ultimately transport unlike the molecules of prokaryotic mRNAs. Molecules of eukaryotic mRNA and the surrounding proteins are jointly referred to as RNP. Transcription process occurs when ribonucleic acids are made from the DNA. During the process, the RNA polymerase creates duplicates of genes to the mRNA from the DNA as required. The process is common in both prokaryotes and eukaryotes. One striking distinction, nonetheless, is that RNA polymerase partners with mRNA-processing enzymes throughout the transcription process to quicken the process. The unprocessed and short-lived product commonly referred to as mRNA is the ultimate outcome of the transcription process.

Question 1 (b)

mRNA (Messenger RNA)

Messenger ribonucleic acid is responsible for transcribing the hereditary code from deoxyribonucleic acid into forms easily accessible for reading and subsequently protein synthesis. It conveys hereditary information to the cellular cytoplasm to the nucleus of the cell.

rRNA (Ribosomal RNA)

Ribosomal RNA is situated in the cellular cytoplasm where ribosomes are located. rRNA coordinates the translation of the messenger ribonucleic acid into polypeptide chains, which are the building units of proteins.

tRNA (Transfer RNA)

Question 1 (b)

As the ribosomal RNA, the transfer RNA is situated within the cellular cytoplasm and is associated with protein formation. Transfer RNA conveys or exchanges protein constituents to the ribosome,

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