

# Free ebook Rna and protein synthesis chapter test (Download Only)

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protein synthesis begins with genes a gene is a functional segment of dna that provides the genetic information necessary to build a protein each particular gene provides the code necessary to construct a particular protein

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relate protein synthesis and its two major phases to the central dogma of molecular biology identify the steps of transcription and summarize what happens during each step explain how mrna is processed before it leaves the nucleus

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learning objectives explain how the genetic code stored within dna determines the protein that will form describe the process of transcription describe the process of translation discuss the function of ribosomes it was mentioned earlier that dna provides a blueprint for the cell structure and physiology

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protein synthesis is the process in which cells make proteins it occurs in two stages transcription and translation transcription is the transfer of genetic instructions in dna to mrna in the nucleus it includes three steps initiation elongation and termination

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learning objectives by the end of this section you will be able to explain how the genetic code stored within dna determines the protein that will form describe the process of transcription describe the process of translation discuss the function of ribosomes

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chapter 7 protein synthesis processing and regulation transcription and rna processing are followed by translation the synthesis of proteins as directed by mrna templates proteins are the active players in most cell processes implementing the myriad tasks that are directed by the information encoded in genomic dna

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summarize the processes involved in protein synthesis describe how mutations affect the process of protein synthesis and its products

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key terms structure of rna dna alone cannot account for the expression of genes rna is needed to help carry out the instructions in dna like dna rna is made up of nucleotide consisting of a 5 carbon sugar ribose a phosphate group and a nitrogenous base however there are three main differences between dna and rna

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andrea bierema learning objectives students will be able to describe the structure and purpose of dna and rna describe the general process of protein synthesis describe the molecular anatomy of genes and genomes identify dna and mrna bases and binding patterns interpret a codon amino acid chart

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Jul 24 2023

main objective explain the process by which a cell builds proteins using the dna code by the end of this section you will be able to explain how the genetic code within dna determines the proteins formed describe the process of transcription explain the process of translation discuss the function of ribosomes

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protein synthesis is a series of chemical reactions in which molecules are brought into contact with one another and chemical bonds are formed and broken the key event in protein synthesis is the formation of bonds between adjacent amino acids in the protein and the breaking of bonds between the same amino acids and the trna molecules that

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fundamentals protein synthesis involves a complex interplay of many macromolecules ribosomes the eukaryotic ribosome has two subunits a 40s small subunit and a 60s large subunit together the eukaryotic ribosome is 80s

## **2 9 protein synthesis fundamentals of anatomy and physiology**

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learning objectives by the end of this section you will be able to explain how the genetic code stored within dna determines the protein that will form describe the process of transcription describe the process of translation discuss the function of ribosomes

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summary the first step of protein synthesis is transcription the unfolding of dna and the production of a messenger rna mrna strand in the second step of protein synthesis translation trna and mrna interact to code amino acids into growing polypeptide chains

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this chapter breaks down protein synthesis into three phases 1 the enzymatic aminoacylation of trnas 2 translation accomplished by ribosomes mrna trna and various protein factors and 3 posttranslational processing of polypeptides cutting folding covalent modification and sometimes splicing

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study guide protein synthesis biology i study questions objective illustrate the molecular processes described in the central dogma use this page to check your understanding of the content vocabulary transcription translation intron exon codon anticodon study guide questions what is the central dogma of biology

## **protein synthesis an overview sciencedirect topics**

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chapters and articles you might find these chapters and articles relevant to this topic protein synthesis david p clark michelle r mcgehee in molecular biology third edition 2019 9 differences between eukaryotic and prokaryotic protein synthesis the overall scheme of protein synthesis is similar in all living cells

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