

## Chapter 11

### Answers

### QUICK-CHECK questions

- 1 **What kinds of haemoglobins are normally found in the red blood cells of people after birth?**  
Within a year after birth, the major haemoglobin found in a person's red blood cells is haemoglobin A (approximately 98 per cent) with a smaller amount of haemoglobin A2 (approximately 2 per cent).
- 2 **What kinds of protein chains make up haemoglobin A?**  
Two kinds of protein chains make up haemoglobin A, namely alpha chains and beta chains. Each haemoglobin A molecule is composed of two alpha chains and two beta chains and each of these four protein chains has an associated haem group. (Haem groups are iron-containing molecules that play a key role in binding oxygen.)
- 3 **What role does Desferal® play in the treatment of thalassaemia?**  
In beta-thalassaemia, the red blood cells die more rapidly than normal, resulting in anaemia. The haemoglobin from these red blood cells breaks down and iron from the haem portion of the haemoglobin accumulates in abnormal amounts in the body organs. The drug Desferal® is a chemical agent that binds to this excess iron preventing its deposition within the body and allowing it to be excreted.
- 4 **Where does transcription occur? What is the end product of this process?**  
The process of gene transcription occurs within the nucleus of a cell. The end product of transcription is messenger RNA (mRNA).
- 5 **A template strand of DNA includes the base sequence:**  
... T A T C G G C A T ...  
**Write the base sequence of the complementary strand.**  
The base sequence in the complementary strand is:  
... A T A G C C G T A ...
- 6 **A strand of mRNA includes the base sequence:**  
... A U G U A U C C G ...  
**Write the base sequence of the DNA template.**  
The DNA template strand that produced this mRNA includes the complementary sequence:  
... T A C A T A G G C ...
- 7 **List two ways in which RNA differs from DNA.**  
Differences between DNA and RNA include:
  - 1 DNA is typically a double-stranded molecule, whereas RNA is single stranded.
  - 2 DNA contains the sugar deoxyribose, whereas the sugar present in RNA is ribose.
  - 3 The nucleotide bases in DNA are A (adenine), T (thymine), C (cytosine) and G (guanine), whereas the nucleotide bases in RNA are A, U (uracil), C and G.

# Nature Of Biology Book 1 Answers Chapter 4

**Carl C. Gaither, Alma E. Cavazos-  
Gaither**



## **Nature Of Biology Book 1 Answers Chapter 4:**

**Discovery and Explanation in Biology and Medicine** Kenneth F. Schaffner, 1993 Kenneth F Schaffner compares the practice of biological and medical research and shows how traditional topics in philosophy of science such as the nature of theories and of explanation can illuminate the life sciences While Schaffner pays some attention to the conceptual questions of evolutionary biology his chief focus is on the examples that immunology human genetics neuroscience and internal medicine provide for examinations of the way scientists develop examine test and apply theories Although traditional philosophy of science has regarded scientific discovery the questions of creativity in science as a subject for psychological rather than philosophical study Schaffner argues that recent work in cognitive science and artificial intelligence enables researchers to rationally analyze the nature of discovery As a philosopher of science who holds an M D he has examined biomedical work from the inside and uses detailed examples from the entire range of the life sciences to support the semantic approach to scientific theories addressing whether there are laws in the life sciences as there are in the physical sciences Schaffner s novel use of philosophical tools to deal with scientific research in all of its complexity provides a distinctive angle on basic questions of scientific evaluation and explanation

**Gaither's Dictionary of Scientific Quotations** Carl C. Gaither, Alma E. Cavazos-Gaither, 2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind s scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither s Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

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are the sensations of being disembodied that those near death often describe the perception that mind and body are separate components of existence whether there is such a thing as a soul the physical effects of decreased oxygen to the brain and the visions that the dying sometimes report from rapturous experiences of eternal peace to diabolical dreams While not dismissing near death experiences as mere hallucinations Dr Woerlee is also careful to point out that even powerful psychological impressions by themselves do not constitute scientific proof of life after death Taking this balanced objective stance he succeeds in conveying a better understanding of the dying process and helping us all to realize the nature of these final experiences G M Woerlee Leiden The Netherlands is an anesthesiologist affiliated with the Rijnland Hospital in Leiderdorp The Netherlands and the author of two books on anesthesiology

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 the organisms composing Earth s biosphere And how did these phosphate derivatives manage to be included in such a great  
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 physics chemistry and biology necessary for the proper understanding of the topics discussed within an astronomical  
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