

## 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

**SJ Ball**



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

## The Enigmatic Realm of **Nature Of Biology Book 1 Answers Chapter 4**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Nature Of Biology Book 1 Answers Chapter 4** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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