

# **Topic Tests for IB Biology**

D. Continuity and Change

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# Teacher's Introduction

These topic tests have been designed to help you and your students assess their knowledge of a topic after you have taught each part of Theme D – Continuity and Change for the IB Biology Diploma Programme (standard level (SL) and higher level (HL)). This section of the course includes the topics: DNA replication; Protein synthesis; Mutation and gene editing; Cell and nuclear division; Gene expression (HL only); Water potential; Reproduction; Inheritance; Homeostasis; Natural selection; Stability and change; and Climate change.

## Remember!

Always check the exam board website for new information, including changes to the specification and sample assessment material.

Each topic test closely follows the content of the specification and includes:

- **Multiple-choice questions:** These are not in exam style, and the purpose of these is to test different elements, knowledge and skills from the specification in a variety of styles. Question types include general recall and explanation of key concepts.
- Structured-answer section:
  - o Some simpler, factual questions are included to ensure that all the content and basics are covered, and to allow less-able biologists access to some marks. Question types include filling in missing words in paragraphs, completing tables and labelling diagrams.
  - o Where appropriate, topics may contain one or more extended-response questions, to prepare students for what they might meet in the exam, and to test exam skills. Question types include method evaluations, ethical discussions and comparisons.

Mathematical and practical skills are also covered in these topic tests. Additional higher level only content is clearly marked in a separate section.

The table below shows the content, specification reference and number of marks allocated to each test.

	Topic	Test Title	Topics Covered	Total Marks (SL)	Total Marks (HL)
		DNA replication	D1.1.1-9	20	32
1.	Molecules	Protein synthesis	D1.2.1-19	24	51
		Mutation and gene editing	D1.3.1-10	20	33
		Cell and nuclear division	D2.1.1-17	26	50
2.	Cells	Gene expression (HL only)	D2.2.1-11	-	33
		Water potential	D2.3.1-11	17	29
		Reproduction	D3.1.1-20	47	59
3.	Organisms	Inheritance	D3.2.1-21	42	62
		Homeostasis	D3.3.1-11	27	40
		Natural selection	D4.1.1-15	23	42
4.	Ecosystems	Stability and change	D4.2.1-15	27	44
		Climate change	D4.3.1-12	24	35

Tests have been designed to take approximately 40–50 minutes to complete, although some are shorter than others. Students are able to see the number of marks awarded for each question, allowing them to gauge the level of detail they will require for the answers. Full answers with marks are included at the end of each test. Additionally, it makes the resource a suitable tool for students to use independently.

The topic tests are suitable for a classroom assessment, revision aid or homework task and are, therefore, suitable for use immediately after a topic is completed in class or at the end of teaching the course.

The HL content for tests D1.1 and D3.3 are duplicated on the page to halve the photocopying cost – simply cut on the dotted line before handing out to students.

It is recommended that students have access to a calculator to complete the questions. It is intended that students answer on a separate paper or in their books to save on photocopying costs.

We hope you find these tests useful during your teaching.

December 2024

# **D1.1 DNA replication**

# **Multiple-choice questions**

- 1. What is the underlying function of DNA replication?
  - A. To repair damaged DNA
    - . To transcribe RNA from DNA
- C. To generate two ide
- **D.** To produce protein
- 2. What principle defines the semi-conservative model of DNA replication?
  - A. DNA replication occurs only in the presence of enzymes
  - B. Each new DNA molecule consists of one parental and one newly synthes
  - C. The process involves the synthesis of RNA template for DNA replication
  - D. DNA replication produces completely identia. pics of the original DNA
- 3. Polymerase chain reaction (PCP) is the stringue used to:
  - A. Analyse protein states as
- C. Convert RNA into D
- B. Amplic specific A sequences
- **D.** Sequence entire ge
- 4. In gel e phoresis, separation of DNA fragments is a result of what?
  - A. Size and shape

**C.** Charge and size

B. Density and charge

**D.** Hydrophobicity an

## Structured-answer section

- If a template DNA strand showed the sequence 5'-ACG TAC ACT GAC GTT ACT the newly synthesised complementary strand display?
- 2. State **two** important biological uses of DNA replication.
- 3. Describe the roles of helicase and DNA polymerase in DNA replication.
- 4. Match the following keywords to their respective uses in the polymerase cha
  - 1. Primers
  - 2. Temperature changes
  - 3. Tag polymerase
- a. Facilitates amplification of target DNA
- b. Initiates DNA synthesis at specific sites
- c. Allows separation of DNA strands to exp
- 5. Choose **one** application each for polymerase chain reaction (PCR) and gel eletheir significance in biological research or diagnostics.



SPECTION COPY



# Additional higher level content (HL)

# **Multiple-choice questions**

- 5. Which **two** proofreading mechanisms are involved in the process of mismatch r
  - A. Helicase and ligase
  - B. DNA polymerase proofreading and exonuclease activity
  - C. Primase and topoisomerase
  - D. Single-strand binding proteins and telomerase

### Structured-answer section

6. State the words or phrases which complete the rape lelw:

In DNA, adenine pairs with (a) \_\_\_\_\_\_ to sme pairs with (b) \_\_\_\_\_. DNA structure, where one strand unit is a structure, while the other runs is The sugar-phosphate to ak one of DNA possesses directionality, with the 5' ether 3' \_\_\_\_\_ group.

7. Summarise the steps involved in DNA replication, emphasising distinctions be lagging strands, and identify the specific enzymes involved in the process.

\*

# Additional higher level content (HL)

# Multiple-choice questions

- 5. Which **two** proofreading mechanisms are involved in the process of mismatch in
  - A. Helicase and ligase
  - B. DNA polymerase proofreading and exonuclease activity
  - C. Primase and topoisomerase
  - D. Single-strand binding proteins and telomerase

### Structured-answer section

6. State the words or phrases which complete the gaps below:

In DNA, adenine pairs with (a) \_\_\_\_, while cytr \_\_i \_\_p \_\_s with (b) \_\_\_\_. DNA structure, where one strand runs in \_\_3 \_\_\_ 5' \_\_ ection, while the other runs in the sugar-phosphate backbo \_\_\_\_ 1 \_\_\_ possesses directionality, with the 5' ethe 3' end having a /\_ 1 \_\_\_ p.

7. Summer steps involved in DNA replication, emphasising distinctions be lagging ands, and identify the specific enzymes involved in the process.

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# **D1.2 Protein synthesis**

# Multiple-choice questions

- 1. Which enzyme is primarily responsible for synthesising RNA using a DNA tem
  - A. DNA polymerase
- **B.** RNA polymerase
- C. Helicase
- 2. What is the complementary base pairing of adenine (A) on the DNA template the RNA strand attributed to during transcription?
  - A. Van der Waals forces

**C.** Ionic interaction

B. Hydrogen bonding

- D. Covalent bondi
- 3. Given a DNA sequence 'TACGCTA', which mRNA (which mRNA) would be transcrit
  - A. AUGCGAU
- B. ATGCC AT
- C HACGCHA

- 4. During protein synthesic polypeptide chairs
- ch's age involves the stepwise addition of amino
- A. T. OI
- B. Initiation
- C. Termination
- 5. What is the function of the anticodon in tRNA?
  - A. Initiates transcription

**C.** Carries the ami

B. Binds to the ribosome

- D. Recognises the
- 6. Which type of mutation is caused by a deletion or an insertion of one or mon
  - A. Frame-shift mutation

C. Missense muta

B. Silent mutation

D. Nonsense mutat

### Structured-answer section

1. State the words or phrases which complete the gaps below:

[2]

The stability of the DNA template ensures (a) \_\_\_\_ during the process of transcription, which serves as the (b) \_\_\_\_ of genetic information into mRNA.

 Describe the process of translation in protein synthesis, detailing the roles of mRNA, ribosomes, and tRNA.



Arg (R)

- 3. a) What is a point mutation?
  - b) What are the impacts of point mutations on protein structure and function?
  - c) Translate the mRNA sequence AUG-UCG-CAA-UGG-UUA-CGU sequence of amino acid cus it provided coder with a fait.
- [1]

[3]

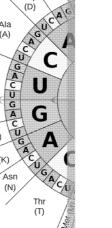


[3]



e feature of the genetic code with its definition:

- Degenerate
- 2. Triplet
- 3. Universal
- a. Describes the structure of the codons cons
- b. Indicates that the genetic code is consistent
- Refers to the redundancy in the genetic cod code for the same amino acid
- e) Describe the steps involved in the movement of the ribosome during tra



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## Additional higher level content (HL)

# **Multiple-choice questions**

- 7. Which of the following statements accurately describes the directionality of translation in molecular biology?
  - A. Transcription occurs in the 3' to 5' direction while translation occurs in t
  - **B.** Both transcription and translation occur in the 5' to 3' direction
  - **C.** Transcription occurs in the 5' to 3' direction while translation occurs in t
  - D. Transcription occurs randomly, while translation occurs in the 5' to 3' di
- 8. What is the function of a promoter in gene expression?
  - A. Initiates translation

C Signals the start

B. Marks the end of the coding region

**D.** Removes intron

- 9. Which of the following the latest uescribes introns and exons?
  - A. Intronara in egions, while exons are non-coding regions
  - B. Ir re emoved during splicing, while exons are retained in mature
  - C. Interest translated into proteins, while exons are untranslated
  - D. Introns contain regulatory elements, while exons contain the genetic co
- 10. Which process is essential for the conversion of pre-proinsulin into insulin?
  - A. Translation

C. Post-translation

B. Transcription

- **D.** Translocation
- 11. Proteasomes play a crucial role in maintaining a functional proteome by:
  - **A.** Facilitating protein synthesis

C. Initiating protein

**B.** Degrading misfolded or damaged proteins

**D.** Secreting peptid

## Structured-answer section

- 4. Explain how cells recycle amino acids during protein synthesis.
- 5. Explain the roles of 5' caps and 3' polyA tails in eukaryotic cells during post-tri
- 6. a) Describe the functions of the three binding sites for tRNA on the ribosor during elongation.
  - b) Explain the steps involved in the initiation of translation.
- 7. Explain the process of alternative splicing of exons in eukaryotic cells, highlight significance in generating multiple variants of proteins at many a single gene.
- 8. State the words or phrases which come the gaps below:

Non-coding sequences plant ruc. I loies in gene regulation and expression. (a) \_\_\_ and are trailing elbut not translated into proteins. Examples of the include \_\_\_, which are intervening sequences found within genes and are process produce mature mRNA. Another example is (c) \_\_\_\_, which are located at the ends of chromosomes and are important for maintaining chromosomes and the ends of chromosomes and the involved in protein synthesis and the ends of chromosomes and the involved in protein synthesis.

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# **D4.3 Climate change**

# Key for mark schemes:

OWTTE = or words to that effect

	valid point
Question	Answer  Multiple-choice questions
1	<ul> <li>Correct answer: B. Volcanic eruptions</li> <li>A. Deforestation: Incorrect – Deforestation is an anthropogenic cause drive agriculture, logging, and urban development, which contribute to a rise reducing carbon dioxide absorption through photosynthesis and releasing trees are burned or decomposed.</li> <li>C. Burning of fossil fuels: Incorrect – Burning of sill uels is a significant a climate change due to the relea of the releating agriculture gases.</li> <li>D. Industrial agriculture: Incorrect – Bustrial agriculture contributes to climate means such as more formally agriculture sill agriculture contributes to climate means such as more formally agriculture.</li> </ul>
2	Correct ar : : ar won dioxide  Ith :: : : : : : : : : : : : : : : : : :
3	<ul> <li>Correct answer: B. Melting polar ice caps</li> <li>A. Increased forest cover: Incorrect – Increased forest cover can act as a nemechanism by absorbing carbon dioxide, thus mitigating global warming</li> <li>C. Reduced emissions from cars: Incorrect – Reduced emissions from cars variety greenhouse gas emissions, acting as a negative feedback mechanism.</li> <li>D. Enhanced volcanic activity: Incorrect – Enhanced volcanic activity can rebut is not considered a primary example of positive feedback in global variety.</li> </ul>
4	<ul> <li>Correct answer: B. Increased water temperature</li> <li>A. Ocean acidification: Incorrect – Ocean acidification is primarily caused be carbon dioxide dissolving in seawater.</li> <li>C. Pollution run-off: Incorrect – Pollution run-off can harm coral reefs, but bleaching is increased water temperature.</li> <li>D. Overfishing: Incorrect – Overfishing can contribute to the decline of coral primary cause of coral bleaching.</li> </ul>
5	<ul> <li>Correct answer: B. Warmer temperatures and decreased winter snowfall</li> <li>A. Decreased temperature and increased winter snowfall: Incorrect – Decreincreased winter snowfall would likely contribute to enhanced carbon a net loss.</li> <li>C. Increased precipitation and reduced forest fires: Incorrect – Increased profess fires would generally promote forest health and carbon accumulated by Enhanced primary production and forest green in the profession of the profession of</li></ul>
6	Correct answer: C. Loss of breeding in a spor emperor penguins.  A. Expansion of breeding grounds for emperor penguins: Incorrect – Melting ice would the sport of the present and a variability for walruses: Incorrect – Melting of sea ice illuminated biodiversity in Arctic ecosystems: Incorrect – While melting ice changes, it would not necessarily result in enhanced biodiversity in Arctic ecosystems.
7	<ul> <li>Correct answer: B. Decrease it</li> <li>A. Increase it: Incorrect – Warmer surface water inhibits nutrient upwelling increased, ocean primary production.</li> <li>C. Have no effect on it: Incorrect – Changes in nutrient availability due to would likely impact primary production, so this option is incorrect.</li> <li>D. Vary unpredictably: Incorrect – While ocean systems are complex and cleffects, the general trend is for decreased primary production due to disso this option is incorrect.</li> </ul>

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Question	Answer
C. C	
	Correct answer: B. Hibernation of bears
	A. Flowering of deciduous trees: Incorrect – The flowering of deciduous trees
	photoperiod and temperature patterns. As daylight hours decrease an
_	trees sense these environmental cues and adjust their growth and flow
8	C. Bird migration: Incorrect – Bird migration is strongly influenced by pho
(HL	patterns. Changes in day length and temperature trigger migratory bel
only)	them to undertake long-distance journeys in search of suitable breedin
	D. Nesting behaviour: Incorrect – Nesting behaviour in various animal spe
	mammals, is also influenced by photoperiod and temperature patterns
	play a crucial role in determining the timing of nesting activities, ensuri
	or hatched at a favourable time for survival.
	Correct answer: C. Photoperiod and temperature les
	A. Atmospheric pressure: Incorrect - \tr os \ ic pressure may influence
9	directly related to phenoise call tests.
(HL	B. Humidity levels: rrec - While humidity levels may affect plant grow
only)	cues for it is object of the control
	Fig. 1. priect – Soil pH can affect plant nutrient uptake but is not a
	nological events.
	Correct answer: C. Spruce bark beetles
	A. Monarch butterflies: Incorrect – Monarch butterflies may be affected b
10	do not typically experience increases in life cycles within a year.
(HL	B. Honeybees: Incorrect – Honeybees may be affected by climate change,
only)	experience increases in life cycles within a year.
	D. Ladybugs: Incorrect – Ladybugs may be affected by climate change, bu
	experience increases in life cycles within a year.
	Correct answer: A. By accelerating spring growth and delaying migration
	B. By delaying spring growth and accelerating migration: Incorrect – Clim
11	accelerates spring growth and may also advance migration.
(HL	C. By synchronising temperature cues across ecosystems: Incorrect – Clim
only)	divergent temperature cues across ecosystems rather than synchronisa
	D. By enhancing the coordination of photoperiod cues: Incorrect – Climate temperature cues more significantly than photoperiod cues in phenolo
- 1	Structured-answer section (4)
1 a)	Carbon dioxide levels increasing alongside rising global temperatures. (1)
	Human activities such as burning of fossil fuels / deforestation / industrial programmes.
1 b)	causes for the observed trend. AVP (1)
•	These activities release greenhouse gases, particularly carbon dioxide, into t
	the greenhouse effect and subsequent warming of Earth's surface. (1)
	a)- negative/positive (1)
2	a)- negative/positive (1) b) acidic/alkaline (1)
2	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1)
2	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)
2	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases cart and axis anto the atmosphere, contributions.
	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon decreases and the strength of the atmosphere, contribute (1)
2	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/oxygen (1)  Burning of fossil fuels releases carbon dioxide
	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon by the atmosphere, contributeffect. (1)  Deforestation reduces the action of trees available to absorb carbon dioxide increased at a by axide levels lead to ocean acidification, harming marine
	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon divide atmosphere, contribute effect. (1)  Deforestation reduction in a primitive of trees available to absorb carbon dioxide lineraged at the divided levels lead to ocean acidification, harming marine in a latures disrupt ecosystems, causing habitat loss and species extends to the contribute of the latural primitive disrupt ecosystems, causing habitat loss and species extends to the contribute of the latural primitive disrupt ecosystems, causing habitat loss and species extends to the latural primitive disrupt ecosystems.
	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon divide a state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and the state of trees available to absorb carbon dioxide lineraged and
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3	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon by a carbon dioxide effect. (1) Deforestation reduces to the effect of the
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3	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon divide effect. (1) Deforestation reduction in a simple of trees available to absorb carbon dioxide linerated in the simple actures disrupt ecosystems, causing habitat loss and species extended in the simple actures of establishing forests on land that was prevailed to the statistical relationship between two variables where chassociated with changes in another, without implying causation (1)  4e) Forest browning – The phenomenon characterised by the decline in heavegetation, often due to stressors like drought or pollution (1)
3	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon divide a basorb carbon dioxide linerated a basorb carbon dioxide linerat
3	a)- negative/positive (1) b) acidic/alkaline (1) c) Decreases/Increases (1) d) carbon/exygen (1)  Burning of fossil fuels releases carbon divide effect. (1) Deforestation reduction in a simple of trees available to absorb carbon dioxide lineraged and in a simple ecosystems, causing habitat loss and species existed in a simple ecosystems, causing habitat loss and species existed in a simple ecosystems, causing forests on land that was prevailed by Causation – The process of establishing forests on land that was prevailed by Causation – The statistical relationship between two variables where chassociated with changes in another, without implying causation (1)  4e) Forest browning – The phenomenon characterised by the decline in heavegetation, often due to stressors like drought or pollution (1)

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Question	Answer
5 (HL only)	With reduced snow cover, brown owls may have better camouflage and hunti higher fitness compared to white owls. (1) This could result in a shift in the population towards brown owls over time. (1
6 (HL only)	<ul> <li>Mismatches in timing between species interactions can lead to:         <ul> <li>Asynchronous flowering and pollination, leading to reduced seed production plant populations. (1)</li> <li>Mismatch between predator and prey emergence, affecting population of leading to declines in predator populations or outbreaks of pest species.</li> <li>Alterations in migration patterns of birds and insects, impacting food web</li> <li>Changes in timing of plant leaf emergence and herbivore feeding, affect in survival rates. (1)</li> </ul> </li> </ul>





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