Pearson Edexcel International GCSE (9–1)

May–June 2022 Assessment Window

Syllabus reference **4BI1**

Biology

Advance Information

You are not permitted to take this notice into the examination.
This document is valid if downloaded from the Pearson Qualifications website.

Instructions

- Please ensure that you have read this notice before the examination.

Information

- This notice covers all examined components.
- The format/structure of the assessments remains unchanged.
- This advance information notice details the focus of the content of the exams in the May–June 2022 assessments.
- There are no restrictions on who can use this notice.
- This notice is meant to help students to focus their revision time.
- Students and teachers can discuss the advance information.
- It is **not** permitted to take this notice into the exam.
- This document has 5 pages.

There are two option codes for this qualification. Some centres will enter for option "R", depending on their location – if you're unsure if your centre uses option "R" papers you should contact your centre who can confirm and check the Information Manual. Please ensure you consult the advance information relevant to the option code used within your centre. Information related to the "R" option is indicated by an "R" after the paper number, e.g. 4BI1/2BR or Paper 2BR.

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General advice

- In addition to covering the content outlined in the advance information, students and teachers should consider how to:
    - manage their revision of parts of the specification which may be assessed in areas not covered by the advance information.
    - manage their revision of other parts of the specification which may provide knowledge that helps with understanding the areas being tested in 2022.
- For specifications with synoptic questions, topics not explicitly given in the advance information may appear, e.g. where students are asked to bring together knowledge, skills and understanding from across the specification.
- For specifications with optional papers/topics/content, students should only refer to the advance information for their intended option.
- For specifications with NEA, advance information does not cover any NEA components

A link to the Joint Council for Qualifications guidance document on advance information can be found on the Joint Council for Qualifications website or here.

Advance Information

Subject specific section

- For each paper the list shows the major focus of the content of the exam.
- Topics **not** assessed either directly or synoptically have also been listed.
- The information is presented in specification order and not in question order.
- Numbers in brackets refer to the points as listed in the specification.
- Each exam paper may include some, or all, of the content in the listed topic.
- Assessment of practical skills, maths skills, and Working Scientifically skills will occur throughout all the papers.
- Core practicals that will be assessed have also been listed.
- Topics not explicitly given in any list may appear in low tariff questions or via synoptic or 'linked' questions. Synoptic or 'linked' questions are those that bring together knowledge, skills and understanding from across the specification.
- Students will still be expected to apply their knowledge to unfamiliar contexts.

Paper 4BI1/1B

- Topic 2d Movement of substances into and out of cells (including practical 2.17) (2.15 – 2.17)
- Topic 2g Gas exchange (including practical 2.50) (2.46 – 2.50)
- Topic 2h Transport (2.51 – 2.54, 2.59 – 2.62, 2.65 – 2.69)
- Topic 2j Co-ordination and response (2.80 – 2.94)
- Topic 3a Reproduction (3.1 – 3.9, 3.11 – 3.13)
- Topic 3b Inheritance (3.14 – 3.15, 3.19 – 3.20, 3.22 – 3.34, 3.38 – 3.39)
- Topic 5b Selective breeding (5.10 – 5.11)

Topics **not assessed** in this paper:

- Topic 1a Characteristics of living organisms (1.1)
- Topic 2a Level of organisation (2.1)
- Topic 2f Respiration (2.34 – 2.39)
- Topic 2i Excretion (2.70 – 2.79B)
- Topic 4c Cycles within ecosystems (4.10 – 4.11B)
- Topic 4d Human influences on the environment (4.12 – 4.18B)
- Topic 5c Genetic modification (genetic engineering) (5.12 – 5.16)
- Topic 5d Cloning (5.17B – 5.20B)

Paper 4BI1/2B

- Topic 2c Biological molecules (including practical 2.9 and practical 2.14B) (2.7 – 2.14B)
- Topic 2g Gas exchange (including practical 2.45B) (2.40B – 2.50)
- Topic 2i Excretion (2.70 – 2.79B)
- Topic 3b Inheritance (3.14 – 3.39)
- Topic 4c Cycles within ecosystems (4.10 – 4.11B)
- Topic 4d Human influences on the environment (4.12 – 4.18B)

Topics **not assessed** in this paper:

- Topic 1a Characteristics of living organisms (1.1)
- Topic 2a Level of organisation (2.1)
- Topic 2f Respiration (2.34 – 2.39)
- Topic 2j Co-ordination and response (2.80 – 2.95B)
- Topic 3a Reproduction (3.1 – 3.13)
- Topic 4a The organism in the environment (4.1 – 4.5)
- Topic 4b Feeding relationships (4.6 – 4.9)
- Topic 5a Food production (5.1 – 5.9B)
- Topic 5b Selective breeding (5.10 – 5.11)

Paper 4BI1/1BR

- Topic 2e Nutrition (2.18 – 2.32)
- Topic 2g Gas exchange (including practical 2.50) (2.46 – 2.50)
- Topic 2j Co-ordination and response (2.80 – 2.94)
- Topic 3a Reproduction (3.1 – 3.9, 3.11 – 3.13)
- Topic 3b Inheritance (3.14 – 3.15, 3.19 – 3.20, 3.22 – 3.34, 3.38 – 3.39)
- Topic 4a The organism in the environment (including practical 4.2) (4.1 – 4.2, 4.5)
- Topic 4b Feeding relationships (4.6 – 4.9)
- Topic 5a Food production (5.1 – 5.8)

Topics **not assessed** in this paper:

- Topic 2d Movement of substances into and out of cells (2.15 – 2.17)
- Topic 2i Excretion (2.70 – 2.79B)
- Topic 4c Cycles within ecosystems (4.10 – 4.11B)
- Topic 4d Human influences on the environment (4.12 – 4.18B)
- Topic 5b Selective breeding (5.10 – 5.11)
- Topic 5d Cloning (5.17B – 5.20B)

Paper 4BI1/2BR

- Topic 2e Nutrition (including practical 2.33B) (2.18 – 2.33B)
- Topic 2h Transport (2.51 – 2.69)
- Topic 2i Excretion (2.70 – 2.79B)
- Topic 2j Co-ordination and response (2.80 – 2.95B)
- Topic 4d Human influences on the environment (4.12 – 4.18B)
- Topic 5d Cloning (5.17B – 5.20B)

Topics **not assessed** in this paper:

- Topic 1a Characteristics of living organisms (1.1)
- Topic 1b Variety of living organisms (1.2 – 1.4)
- Topic 2a Level of organisation (2.1)
- Topic 2c Biological molecules (2.7 – 2.14B)
- Topic 2f Respiration (2.34 – 2.39)
- Topic 2g Gas exchange (2.40B – 2.50)
- Topic 3b Inheritance (3.14 – 3.39)
- Topic 4b Feeding relationships (4.6 – 4.9)
- Topic 4c Cycles with ecosystems (4.10 – 4.11B)
- Topic 5a Food production (5.1 – 5.9B)
- Topic 5b Selective breeding (5.10 – 5.11)

END OF ADVANCE INFORMATION