

# DOT POINT IB BIOLOGY CORE CELLS ANSWERS

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**How do you get a 7 in IB biology?** Students must prioritise key syllabus topics to achieve a Level 7 in IB Biology. This includes understanding key concepts and theories, how they relate to assessment objectives, and how to achieve them. Active learning methods and concept mapping help students retain and understand the extensive curriculum.

**What mark is paper 2 in IB biology?** Paper 2: /72 marks Paper 2 consists of two sections, A and B. Section A is the data response and short answer questions section whereas section B is the long answer or essay section. Make sure that you know the command terms as this will help you guide your answers.

**How long is ib bio paper 3?** Paper three for SL is 1 hour with section A data-based question and SAQs, then section B with SAQs on the option topic (20% of grade). HL is 1 hour 15 minutes with section A data-based question and SAQs, then section B with SAQs on the option topic (24% of the grade).

**What is the structure of the IB biology exam?** This IB biology exam paper tests all of your core syllabus knowledge through extended response questions. Section A: Data-based and short answer questions, where each question has multiple parts (i/ii/iii). Section B: A choice of extended response sets, where each set is made of 3 longer questions (often 2,6,8 marks).

**Is 27 good in IB?** What is a good IB score? A good IB score is subjective and depends on individual goals and aspirations. However, a score of 30 or above is generally considered to be a good IB score. A score of 30 points places a student in the 50th percentile, meaning they performed better than 50% of all IB candidates

worldwide.

**Is 5 out of 7 good in IB?** IB grades are typically equivalent to certain numerical scores for academic purposes: A grade of 7 is equivalent to an A+ or 97-100% A grade of 6 is equivalent to an A or 93-96% A grade of 5 is equivalent to a B or 85-92%

**Is a 2 a fail in IB?** Conditions for achieving the diploma A grade has been awarded in all subjects, TOK and the EE. A grade of at least a 2 has been awarded in all subjects. There are no more than two grade 2s awarded (SL or HL). There are no more than three grade 3s or below awarded (SL or HL).

**What percentage is a 2 in IB?**

**What percentage is paper 1 IB Biology?** For IB Biology, the breakdown looks like this: Paper 1 – 20% Paper 2 – 40% Paper 3 – 20%

**Is it easy to get a 7 in IB?** Since the IB curriculum is extensive and rigorous, achieving a 7 in IB Business is undoubtedly challenging. Also, the multifaceted nature of the course and the high standards set by the IB program make it overwhelming.

**What is the hardest subject to get a 7 in IB?** Subjects generally considered hardest in IB – Math Analysis and Approaches (AA) HL, Sciences (HL), History HL, English Literature HL, and Computer Science HL.

**How to get a 7 in biology IA?** 1. Personal Engagement (2 marks) Personal engagement involves selecting a topic and experiment that holds personal significance or relevance to the student. While topics often align with IB biology content, students have the flexibility to explore areas beyond the curriculum.

**How to score 7 in IB?**

**What is the multiple-choice question rule?** A multiple-choice question (MCQ) is composed of two parts: a stem that identifies the question or problem, and a set of alternatives or possible answers that contain a key that is the best answer to the question, and a number of distractors that are plausible but incorrect answers to the question.

**Which labor law is most important?** The Fair Labor Standards Act (FLSA) is the federal law commonly known for minimum wage, overtime pay, child labor, recordkeeping, and special minimum wage standards applicable to most private and public employees.

**How do you practice multiple-choice questions?**

**What is the exception to the employment at will doctrine multiple-choice question?** Final answer: The exceptions to the employment-at-will doctrine include the public policy exception, a contract containing terms inconsistent with this doctrine, the implied contract exception, and the implied covenant of good faith and fair dealing exception. These exceptions protect employees from unjust termination.

**What are the principles of multiple choice questions?**

**How do you outsmart multiple choice questions?**

**What are the basic labor laws in the USA?** The primary federal employment laws are: Title VII of the Civil Rights Act; the Americans with Disabilities Act; the Equal Pay Act; the Fair Labor Standards Act; the Family and Medical Leave Act ("FMLA"); the Immigration Reform and Control Act; the National Labor Relations Act ("NLRA"); the Occupational Safety and ...

**Can an employer have different rules for different employees?** A company can only legally enforce rules that it enforces uniformly for everyone. Selective rule enforcement is often a sign of discrimination or mistreatment of the employee(s) singled out for discipline.

**What is labor law compliance?** Labor law compliance is defined as a set of specific rules and regulations imposed on companies on a state and federal level in US. The primary role of labor laws is to protect employee rights and ensure employers provide fair treatment and a healthy and safe work environment for their employees.

**What is the multiple choice question method?** A multiple choice item consists of a problem, known as the stem, and a list of suggested solutions, known as alternatives. The alternatives consist of one correct or best alternative, which is the answer, and incorrect or inferior alternatives, known as distractors.

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**What is the most common answer on multiple choice tests?** I'm sure you've heard this at some point "if you don't know the answer, always guess C. because it's the most common correct option". That's just a myth, and generally there are no most common answers on multiple choice tests.

**What strategy is best for multiple choice exams?**

**Can a job fire you for he say she say?** The unreliability and unfairness of the hearsay is heightened when the decision-maker fails to bring up any of the information as to alleged wrongful act to the terminated employee before making the termination decision. Employers are not prohibited from basing termination decisions on hearsay.

**What are the 5 exceptions to employment-at-will?** There are five main exceptions to at-will employment in California: public policy, implied contracts, discrimination and/or retaliation, and fraud and/or misrepresentation.

**What is the employee choice doctrine?** The employee choice doctrine applies when a departing employee has a choice between (1) abiding by a non-compete provision and keeping post-employment compensation from the former employer or (2) working for a competitor and forfeiting that compensation.

**What are the limitations of multiple choice questions?** Multiple-choice questions may limit assessing higher-order cognitive skills and allow for guessing. Expanded multiple-choice questions with explanations aim to address these limitations effectively. Multiple-Choice Questions (MCQs) may lead to guessing and overconfidence due to limited answer options.

**What is the format for multiple choice questions?** A multiple-choice question (MCQ) is composed of two parts: a stem that identifies the question or problem, and a set of alternatives or possible answers that contain a key that is the best answer to the question, and several distractors that are plausible but incorrect answers to the question.

**What is the recommended time for multiple choice questions?** Multiple Choice questions - 1 minute to 1 ½ minutes per question. This also assumes that computations for multiple choice questions are not required.

## **What is the rule for multiple-choice questions?**

**What makes a bad multiple-choice question?** Don't give clues. It's therefore important that your alternatives are similar in both length and language. It's also smart to avoid unintentionally giving away an answer to a question in another part of the quiz. Another clue learners may be on the lookout for is the use of extremes.

**How to answer multiple-choice questions if you don't know?** - If you aren't sure of the correct answer: - Eliminate alternatives that are absurd, silly, or obviously incorrect. - Cross off answers that are clearly not correct. - Make sure the stem and the choice you've chosen agree grammatically. - Choose the alternative that is most inclusive.

**What is the multiple choice question method?** A multiple choice item consists of a problem, known as the stem, and a list of suggested solutions, known as alternatives. The alternatives consist of one correct or best alternative, which is the answer, and incorrect or inferior alternatives, known as distractors.

## **How do you format multiple choice questions?**

**What are the three parts of a multiple choice question?** There are three parts to a multiple-choice question: the root, the stem, and the answer set. The root is the hypothetical fact pattern. When analyzing the fact pattern, stick to what is written on the page and do not make assumptions. The stem is the question or task.

**What is the standard time for a multiple choice question?** Multiple Choice questions - 1 minute to 1 ½ minutes per question. This also assumes that computations for multiple choice questions are not required. Computational questions, may require additional time.

## **The New Turing Omnibus: 66 Excursions in Computer Science**

Ak Dewdney's "The New Turing Omnibus" is a captivating collection of 66 thought-provoking computer science puzzles and paradoxes. Each puzzle is designed to challenge your mind and explore the fascinating realm of computation.

### **1. The Halting Problem**

- **Question:** Is it possible to determine whether a given computer program will ever finish executing?
- **Answer:** No. Known as the Halting Problem, this question is a fundamental limitation of computer science.

## 2. The Collatz Conjecture

- **Question:** For any positive integer, if it is even, divide it by 2, and if it is odd, multiply it by 3 and add 1. Will the sequence eventually reach 1?
- **Answer:** This conjecture remains unproven, despite decades of research.

## 3. Conway's Game of Life

- **Question:** How does a finite set of cells on a grid evolve over time, following simple rules of "birth" and "death"?
- **Answer:** Conway's Game of Life exhibits complex and unpredictable patterns, demonstrating the computational power of cellular automata.

## 4. P vs. NP

- **Question:** Are there problems that computers can verify quickly (NP) but cannot solve quickly (P)?
- **Answer:** This is one of the most important and unsolved questions in computer science, with implications for cryptography and other fields.

## 5. Gödel's Incompleteness Theorems

- **Question:** Can a formal system of mathematics be both complete and consistent?
- **Answer:** According to Gödel's theorems, such a system is impossible, posing fundamental limits on mathematical knowledge.

"The New Turing Omnibus" offers a playful and thought-provoking journey through the foundations of computer science. By exploring these puzzles and paradoxes, you will gain a deeper appreciation for the power and limitations of computation.

## **Toxicants in Food Packaging and Household Plastics: Exposure and Health Risks to Consumers**

Food and household plastics are ubiquitous in modern life, but concerns have emerged about the potential health risks associated with their widespread use. These materials often contain toxicants that can leach into food or the environment, raising questions about their safety.

### **1. What are the common toxicants found in food packaging and household plastics?**

Some of the most prevalent toxicants include:

- Bisphenol A (BPA): A hormone disruptor used in polycarbonate plastics
- Phthalates: Plasticizers that can interfere with hormone function
- Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS):  
Non-stick and water-resistant coatings

### **2. How are we exposed to these toxicants?**

Exposure can occur through:

- Ingestion: Leaching into food or beverages
- Inhalation: Volatile compounds released from plastics
- Direct contact: Skin exposure to plastics

### **3. What are the potential health risks of these toxicants?**

Research suggests that exposure to these toxicants may be linked to:

- Hormonal disruption: Altered fertility, developmental issues
- Cancer: Animal studies have shown associations with certain types of cancer
- Liver and kidney damage: In high doses
- Neurotoxicity: Developmental effects on the brain

#### 4. How can we reduce exposure to these toxicants?

- Choose glass, stainless steel, or ceramic containers for food and beverages
- Avoid heating plastic containers in the microwave or dishwasher
- Use reusable shopping bags and water bottles
- Wash fruits and vegetables thoroughly to remove any pesticide or plastic residues

#### 5. What are the current regulations on these toxicants?

Regulations vary globally, but some countries have banned or restricted the use of certain toxicants in food packaging and household plastics. Ongoing research and advocacy efforts aim to improve the safety of these materials and protect consumer health.

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