

11 BIOLOGY

Yearly Examination 2023

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TOPIC: Yearly Examination	MARKS:	/75
SUBMISSION REQUIREMENTS:	WEIGHTING:	40%
As per preliminary exam timetable		
OUTCOMES TO BE ASSESSED:		
Bio11-6 Solves scientific problems using primary and secondary data, critical thinking skills and		
scientific processes.		
Bio11-7 Communicates scientific understanding using suitable language and terminology for a specific		
audience or purpose		
Bio11-8 Describes single cells as the basis for all life by analysing and explaining cells ultrastructure and		
Diochemical processes		
Bio11-9 Explains the structure and function of multicentual organisms and describes now the		
Bio11-10 Describes biological diversity by explaining the relationships between a range of organisms in		
terms of specialisation for selected habitats and evolution of species		
Bio11-11 Analyses ecosystems dynamics and the interrelationships of organisms within the ecosystem		
DIRECTIONAL VERBS:		
Analyse: Identify components and the relationship between them; draw out and relate implications		
Communicate: scientific understanding succinctly, logically, and consistently using correct and precise		
scientific terms and application of nomenclature in a variety of formats and wide range of contexts		
Describe: Provide characteristics and features		
Explain: Relate cause and effect; make the relationships between things evident; provide why and/or		
how.		
Solve: Find an answer to, explanation for, or means of effectively dealing with a problem.		
TASK DESCRIPTION:		
Students are to complete a written examination based on Module 1 (Cells as the Basis of Life), Module		
2 (Organisation of Living Things), Module 3 (Biological Diversity), Module 4 (Ecosystem Dynamics). The		
examination will be set out as follows:		
Duration: 2 hours		
Total marks: 75		
Examination consists of the following components:		

- 20 multiple choice questions (20 marks) worth 1 mark each
- Short and extended responses (55marks) ranging from 1-10 marks

Students will answer questions as instructed on the examination paper.

ASSESSMENT CRITERIA:

Students are encouraged to complete regular revision in the lead up to this assessment task, this includes completing all CANVAS activities and reviewing available resources and utilising ATOMI. The marking criteria will be supplied to students on the return of their examination paper. All marking will adhere to the strict marking criteria with each question marked by a specific teacher.

Both Multiple Choice and short and extended response questions will assess the following areas of the syllabus:

- Module 1: Inquiry question: What distinguishes one cell from another?
 Module 1: Inquiry question: How do cells coordinate activities within their internal environment and the external environment?
- Module 2: Inquiry question: How are cells arranged in a multicellular organism?
- Module 2: Inquiry question: What is the difference in nutrient and gas requirements between autotrophs and heterotrophs? (NOT INCLUDING trace the digestion of foods in a mammalian digestive system, including: – physical digestion – chemical digestion – absorption of nutrients, minerals and water – elimination of solid waste)
- Module 3: **Inquiry question:** How do environmental pressures promote a change in species diversity and abundance?
- Module 3: Inquiry question: How do adaptations increase the organism's ability to survive?
- Module 3: What is the relationship between evolution and biodiversity?
- Module 3: What is the evidence that supports the Theory of Evolution by Natural Selection?
- Module 4: **Inquiry question**: What effect can one species have on the other species in a community?
- Module 4: **Inquiry question:** How do selection pressures within an ecosystem influence evolutionary change?
- Module 4: Inquiry question: How can human activity impact on an ecosystem?