



**Biology**  
**Standard level**  
**Paper 3**

17 May 2023

Zone A: afternoon | Zone B: morning | Zone C: afternoon

Candidate session number

1 hour

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**Instructions to candidates:**

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Answers must be written within the answer boxes provided.
- A calculator is required for this paper.
- The maximum mark for this examination paper is [35 marks].

Section A	Questions
Answer all questions.	1 – 3

Section B	Questions
Answer all of the questions from one of the options.	
Option A — Neurobiology and behaviour	4 – 8
Option B — Biotechnology and bioinformatics	9 – 12
Option C — Ecology and conservation	13 – 16
Option D — Human physiology	17 – 20

# 13 Biology Hl Paper 3 Tz 1

**CO Houle**

### 13 Biology HL Paper 3 Tz 1:

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**Books in Print**,1981   **International Books in Print, 1988** Archie Rugh,1988   *East Asian Paintings* John Winter,2008-07-09 This book brings together what is known of the material aspects of the paintings of East Asia China Japan and Korea covering the components used painting structures certain aspects of painting techniques and the mechanisms of deterioration It concentrates on those works in the mainstream of art history largely paintings on flexible supports and typically mounted as scrolls The author bases his account on what is known from the available historical literature on research published by colleagues worldwide and on his own research of over thirty five years at the Freer Gallery of Art and the Arthur M Sackler Gallery   *Forthcoming Books* Rose Arny,1988-11

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web overall equipment effectiveness oee is a key performance indicator used to measure equipment productivity the purpose of this study is to review and analyze the evolution of oee present modifications made over the original model and

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web watch on oee indicates the percentage of time the machine is productive by combining the following metrics availability measures the amount of time the machine was down during planned production performance measures the amount of time the machine ran below standard speed

**what is overall equipment effectiveness ibm** - Jun 01 2022

web overall equipment effectiveness oee is a metric used to measure the effectiveness and performance of manufacturing processes or any individual piece of equipment it provides insights into how well equipment is utilized and how efficiently it

operates in producing goods or delivering services