

Please write clearly in block capitals.

Centre number

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I declare this is my own work.

INTERNATIONAL A-LEVEL BIOLOGY (9610)

Unit 5 Synoptic paper

Thursday 19 January 2023 07:00 GMT Time allowed: 1 hour 30 minutes

Materials

For this paper you must have:

- a pencil
- a ruler with millimetre measurements
- a scientific calculator, which you are expected to use where appropriate.

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 75.
- In Question 6, 2 marks will be awarded for the quality of your written communication. You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use specialist vocabulary where appropriate.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
TOTAL	



J A N 2 3 B L O S O 1

IB/M/Jan/23/E7

BL05

610 Biology Qp 2013 Paper 11

**Andreas Holzinger, Randy
Goebel, Massimo Ferri, Vasile Palade**



610 Biology Qp 2013 Paper 11:

Towards Integrative Machine Learning and Knowledge Extraction Andreas Holzinger, Randy Goebel, Massimo Ferri, Vasile Palade, 2017-10-27 The BIRS Workshop Advances in Interactive Knowledge Discovery and Data Mining in Complex and Big Data Sets 15w2181 held in July 2015 in Banff Canada was dedicated to stimulating a cross domain integrative machine learning approach and appraisal of hot topics toward tackling the grand challenge of reaching a level of useful and useable computational intelligence with a focus on real world problems such as in the health domain This encompasses learning from prior data extracting and discovering knowledge generalizing the results fighting the curse of dimensionality and ultimately disentangling the underlying explanatory factors in complex data i e to make sense of data within the context of the application domain The workshop aimed to contribute advancements in promising novel areas such as at the intersection of machine learning and topological data analysis History has shown that most often the overlapping areas at intersections of seemingly disparate fields are key for the stimulation of new insights and further advances This is particularly true for the extremely broad field of machine learning

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