

Paper Reference(s)

6133/02

Edexcel GCE

Biology (Salters-Nuffield)

Advanced Subsidiary

Unit 3 Paper 02 – Practical Work Review

Thursday 17 May 2007 – Afternoon

Time: 1 hour

This paper may be opened and given to candidates on/after
10 May 2007.

Materials required for examination

Answer Book (AB08)
Ruler
Two practical work reports
Authentication certificate

Items included with question papers

Nil

Instructions to Candidates

You are given this paper and allowed a period of seven days to prepare for it. You will be allowed one hour to write the paper under normal supervised examination conditions.

Your answers to this paper may be hand written or word processed.

On the front sheet of your answers or your answer book, write the name of the examining body (Edexcel), your centre number, candidate number, the subject title (Biology (Salters-Nuffield)), the paper reference (6133/02), your surname, other names and signature.

Write your name, centre number and candidate number on every sheet of paper that you send.

Answer ALL THREE questions. Your answers to Questions 2 and 3 must be supported by attaching reports of two experiments, that you have carried out and written up during your course, to your answers or your answer book.

Show all the steps in any calculations and state the units.

Include diagrams in your answers where these are helpful.

Information for Candidates

The marks for individual questions and parts of questions are shown in round brackets: e.g. (2).

The total mark for this paper is 20.

Advice to Candidates

You must ensure that your answers to parts of questions are clearly indicated.

You will be assessed on your ability to organise and present information, ideas, descriptions and arguments clearly and logically, taking account of your use of grammar, punctuation and spelling.

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Answer ALL THREE questions.

You should refer to your reports of the practical work that you completed during your course when you answer the questions in this paper.

For **Questions 2 and 3**, you must select **two** different appropriate reports that you have written and your answers must refer specifically to them. You may make brief annotations on your practical work reports if you wish, but you must not bring any other notes into the examination.

You must attach the appropriate practical work reports to support your answers to Question 2 and to Question 3.

1. (a) With reference to practical work you have carried out during your course, select **two** different kinds of graph/chart and explain why you chose to display your data in this way. (4)
- (b) (i) Explain how **one** of the graphs/charts helped you to draw a specific conclusion. (1)
- (ii) Suggest how you showed, or could have shown, the reliability of your data on the graph/chart. (1)

(Total 6 marks)

2. From the practicals that you have completed during the course, select **one** suitable practical report to support your answers to the following questions. Identify the practical you have selected.
- (a) Discuss an ethical issue that may have been considered when **choosing** the organism or source of material for your chosen practical. (2)
- (b) Explain what you understand by the term **systematic error** and identify a possible source of systematic error in your chosen practical. (2)
- (c) State what measures you took, or could have taken, in your chosen practical to ensure your results were reliable. (3)

Include your practical report with this answer.

(Total 7 marks)

3. From the practicals that you have completed during the course, select **another** suitable practical report to support your answers to the following questions. Identify the practical you have selected.

(a) (i) The quotation below defines what is meant by an experiment:

‘An experiment is a set of actions and observations, performed to accept or reject an hypothesis.’

Give a concise statement of the hypothesis that your chosen experiment was designed to ‘accept or reject’.

(2)

(ii) Explain how the evidence you obtained allowed you **either** to accept **or** to reject your hypothesis.

(2)

(b) Describe **one** safety precaution that you took, or could have taken, in this experiment and explain why it was needed.

(3)

Include your practical report with this answer.

(Total 7 marks)

TOTAL FOR PAPER: 20 MARKS

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