

Paper Reference(s)

6133/02

Edexcel GCE

Biology (Salters-Nuffield)

Advanced Subsidiary

Unit 3 Paper 02 – Practical Work Review

Tuesday 13 May 2008 – Afternoon

Time: 1 hour

This paper may be opened and given to candidates on/after
Tuesday 6 May 2008.

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, 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 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 answer book.

Show all 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).

There are 3 questions in this question paper. The total mark for this paper is 20.

There are 4 pages in this question paper. Any blank pages are indicated.

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, including 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. Answer the following questions with reference to any practical work you have carried out during your course.
- (a) Describe, giving examples, **three** different ways in which you have attempted to ensure the production of valid results in your practical work. (3)
- (b) Briefly describe **three** precautions that you have taken in your practical work to ensure that you worked safely. (3)

(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) Describe how your measurement of the dependent variable was, or could have been, affected by an error. State which **kind** of error you are describing: **systematic** or **random**. (2)
- (b) Describe how this error was, or could have been, minimised or eliminated. (2)
- (c) Identify the independent variable, dependent variable and one variable that was, or could have been controlled in this practical work. (3)

Include your practical report with this answer.

(Total 7 marks)

3. 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) Making reference to any method of data presentation you used, explain how the results you obtained led you to a conclusion or conclusions. (3)
- (b) If you had, or were given, the opportunity to extend your investigation, describe what you would do in order to have more confidence in your conclusion(s). (4)

Include your practical report with this answer.

(Total 7 marks)

TOTAL FOR PAPER: 20 MARKS

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