

# Mark Scheme (FINAL)

## Summer 2008

GCE

GCE SNAB Biology (6133/02)

## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Question Number	Answer	Mark
1(a)	<ol style="list-style-type: none"> <li>1. repetitions as part of validity (specific e.g. needed);</li> <li>2. precision / accurate with specific example ref. DV ;</li> <li>3. apparatus choice with specific example ref. DV ;</li> <li>4. variable control with specific example ref. CV .;</li> <li>5. error minimising with specific example ref. DV ;</li> <li>6. suitable range of IV example ;</li> <li>7. use of control / baseline of example ;</li> </ol>	max (3)

Question Number	Answer	Mark
1(b)	<p>three precautions as appropriate;;;</p> <p><u>in context</u></p>	(3)

Question Number	Answer	Mark
2(a)	<ol style="list-style-type: none"><li>1. appropriate error described ;</li><li>2. systematic / random ;</li></ol>	(2)

Question Number	Answer	Mark
2(b)	<ol style="list-style-type: none"><li>1. basic method for elimination described;</li><li>2. detail;</li></ol>	(2)

Question Number	Answer	Mark
2(c)	<ol style="list-style-type: none"><li>1. IV ;</li><li>2. DV ;</li><li>3. Relevant CV ;</li></ol>	(3)

Question Number	Answer	Mark
3(a)	<ol style="list-style-type: none"> <li>1. correct presentation method ;</li> <li>2. trend/pattern identified ;</li> <li>3. what this means in specific case ;</li> </ol>	(3)

Question Number	Answer	Mark
3(b)	<ol style="list-style-type: none"> <li>1. extended range of IV; with e.g. ;</li> <li>2. more values of IV (around critical points) in original ; e.g.s to illustrate ;</li> <li>3. repetition ; to measure reliability / degree of error / error bars / SD / range ;</li> <li>4. use of more accurate / precise equipment, with example ;</li> <li>5. more skilled use of equipment with example ;</li> <li>6. better / some control of CVs ; example ;</li> </ol>	max (3)