# MARK SCHEME for the May/June 2012 question paper for the guidance of teachers 

## 0610 BIOLOGY

0610/63
Paper 6 (Alternative to Practical), maximum raw mark 40

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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Mark schemes will use these abbreviations:

- ; separates marking points
- / alternatives
- R reject
- A accept (for answers correctly cued by the question, or guidance for examiners)
- AW alternative wording (where responses vary more than usual)
- underline actual word given must be used by candidate (grammatical variants excepted)
- D, L, T, Q quality of drawing / labelling / table / writing as indicated by mark scheme
- max indicates the maximum number of marks that can be given


| 2 (a) | Outline: use of single clear lines for drawing ; <br> Size: head larger than head in photograph at least half of <br> space available ; <br> Detail: two details from <br> pair of antennae or pair eyes in correct position ; <br> pair of mandibles / mouth parts ; <br> Label 1 label mark only: <br> one from <br> eye / antenna / jaws or mouth or mandibles AW ; | R shading / cross hatching(including eyes) |  |
| :--- | :--- | :--- | :--- |
| (b) (I) | insects / Insecta ; | [5] | [1] |
| (ii) | body divided into 3 parts or sections / head, thorax and <br> abdomen ; <br> three pairs of legs ; | [2] |  |
| (c) (i) | Use of reducing sugar and starch test reagents only ; <br> reducing sugar test: <br> crush / mix with water / AW ; <br> add Benedict's solution ; <br> heat ; <br> starch test: <br> add iodine solution ; <br> Safety feature: goggles / lab. coat AW / tongs / heat in water <br> bath ; | [6] |  |


| (ii) | Observation for reducing sugar test: <br> to green / yellow / orange / red ; <br> Observation for starch test: <br> to blue / black ; | [2] |  |
| :---: | :--- | :---: | :---: |
| (d) | method: <br> two containers - one with banana, one with plantain / AW ; <br> OR <br> one container / choice chamber containing banana AND <br> plantain / AW ; <br> controlled variable: <br> idea of same time period / same mass fruit ; <br> collecting results: <br> record number flies seen / find change in mass of banana <br> and plantain AW ; <br> conclusion: <br> if more flies in banana than plantain it is preferred fruit and <br> vice vers / AW / larger loss in mass of preferred fruit and <br> vice versa ; | Max [3] |  |



