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

## 0610 BIOLOGY

0610/61
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


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Syllabus 0610

| (b) (i) | mesophyll cell - label A ; xylem vessel - label B; an epidermal cell - label C ; | [3] | End of line must be in contact with cell. |
| :---: | :---: | :---: | :---: |
| (ii) | ring round stoma ; | [1] |  |
| (c) | Measurement of diam from Fig. 1.3 [external]: [7.1-6.0 cm or $71-60 \mathrm{~mm}$ ] Units need to be given. Formula: show $\div$ of measurement by $0.5 / 5$; Mag $14.2-12 \text {; }$ | [3] |  |
| (d) (i) | preparation of sample <br> e.g. cut / grind <br> make into solution ; <br> add Benedict's [solution] ; <br> heat ; <br> safety aspect, e.g. goggles / tongs / lab. coat ; | Max [3] |  |
| (ii) | (if absent) stays / turns blue ; <br> (if low concentration) changes to green / yellow ; <br> (if high concentration) changes to orange / red ; | [3] |  |



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