OCR AS/A-level Year 1 Biology A exam practice answers

**1 Practical skills**

**1** The correct answer is option B. [1]

**2** The correct answer is row C. [1]

**3** The correct answer is row A. [1]

**4** **(a) (i)** A tissue plan. [1]

**(ii)** Any three from: xylem, phloem, vascular bundle, epidermis, vascular bundle. [3]

**(b) (i)** 400× [1]

**(ii)** Any three from: nucleus, nucleolus, chloroplast, cell wall. [3]

**5 (a)** Any five from: named volume of yeast suspension and named volume of hydrogen peroxide; placed in water bath; using separate test tubes/beakers; named time to equilibrate; mix yeast and hydrogen peroxide together; suitable method to deliver gas to measuring cylinder; collect gas in upturned measuring cylinder; displacement of water; collect for stated time. [5]

**(b)** Any two from: collect for the same length of time at each temperature; use the same volume of hydrogen peroxide and yeast each time; use the same concentration of yeast and hydrogen peroxide each time; allow sufficient time to equilibrate. [2]

**(c)** Show temperature in the first column; give the units for temperature in the column heading, not in the body of the table; name the dependent variable in the column heading (volume of gas produced). [3]

**(d)** Trial 2 at 20°C because it is similar to readings at 25°C. [3]

**(e)** Any two from: it was not repeated often enough to make it reliable; the range of temperatures was not wide enough; there is potential for gas to be lost from the apparatus and not measured. [2]

**(f)** Any two from: repeat the experiment to make it more reliable; use a wider range of temperatures; use a smaller interval between temperatures; seal the apparatus before mixing the yeast and hydrogen peroxide. [2]