Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B1 Cell Biology

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Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 23 Marks **Time : 23 Minutes**

Mark Schemes

Q1.

(a) nucleus

1

cell wall

1

(b) any **one** from:

- contain (many) chloroplasts
- positioned near the top surface of the leaf
- packed closely together

1

(c)

Structure	Tissue	Organ	Organ system
Leaf		✔	
Xylem	✔		
Roots, stem and leaves			✔

additional tick in a row negates the credit for that row

allow **1** mark for two correct rows

2

(d) ×4

1

reason: any **one** from:

- gives the largest field of view
- easier to focus

1

(e) eyepiece lens: ×10
and
objective lens: ×40

or

eyepiece lens: ×5

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and

objective lens: ×80

allow sensible suggestions that give a magnification of ×400

1

(f) 12.4 (mm)

allow 12 (mm)

1

(e) real width = $\frac{12.4}{400}$

1

0.031 (mm)

*an answer of 0.031 (mm) scores **2** marks*

allow ecf from part (f)

1

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Q2.

(a) A

1

(b) D

1

(c) A = synapse

1

B = motor (neurone)

1

in this order only

(d) a reflex action

1

(e) 12 (ms)

1

0.012 (s)

1

*an answer of 0.012 (s) scores **2** marks*

(f) A

1

(g) controls the release of an egg

1

(h) in the blood(stream)

allow in the plasma / blood vessels

*do **not** accept in blood cells / platelets*

1

(i) (person) C

1

any **one** from:

- the testosterone level is high(er)

  allow testosterone is the main male (sex) hormone

- the oestrogen **and / or** progesterone levels are low

- the oestrogen and progesterone levels do not rise and fall as they do in a menstrual cycle

  allow there is no menstrual cycle

1

no marks if A or B given

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