Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B2 Organisation

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Name of the Student:_____
Max. Marks : 26 Marks **Time : 26 Minutes**

Mark Schemes

Q1.

(a) (as a) control

allow to show the effect of fan / wind
*do **not** accept control variable*

or

(to) compare (the other results to)

1

(b) (loss of mass / water) increases

allow mass of leaves decreases more
allow more (mass / water) is lost

1

(c) loss of water

1

(because water) evaporated

allow by transpiration
allow diffusion

1

from stomata / stoma

ignore from guard cells

1

(d) greater

1

(e) do the investigation again using the same method

1

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Q2.

(a) **C**

1

(b) platelets

1

(c) any **two** from:

- oxygen
- hormones
- urea
- carbon dioxide
- water
- glucose

allow sugar

- amino acids
- fatty acids
- glycerol
- antibodies
- lactic acid
- minerals
- vitamins

*allow 2 named minerals / vitamins / hormones / drugs for **2** marks*

allow other correctly named substances such as proteins

2

(d) any **one** from:

allow converse if clearly referring to arteries

- blood is under lower pressure
- easier to stop the bleeding

allow less bleeding (after the donation)

- easier to puncture the vein

allow (veins) have thinner walls

- easier to access (vein / blood)

allow (veins) are closer to the surface (of the skin)

- less painful
- blood flows smoothly

ignore references to safety
ignore references to oxygenated and deoxygenated blood

1

(e) (advantage)
any **one** from:

- improved quality of life
- lives are saved **or** deaths are reduced
- reduced anaemia
- restores blood levels (following severe burns / blood-loss)

ignore more blood unqualified

1

(disadvantage)
any **one** from:

- risk of infection
- risk of rejection

allow blood type must match
allow wrong blood type given

- allergic reaction
- bruising

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ignore religion

1

(f) (advantage)

any **one** from:

- (pleasure from) helping others **or** (happiness from) saving lives

  allow feel good factor
- reveal potential health problems

  allow examples such as HIV

1

(disadvantage)

any **one** from:

- pain (when donating)
- risk of infection
- time (spent while donating)
- feeling unwell (after donation)

  allow dizzy / hot / sweating / trembling / nauseous / fainting
- bruising (from the donation site)
- reduced physical activity for the rest of the day

  allow fatigue
- possibility of rebleeding

  ignore religion

1

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Q3.

(a) pain when urinating

1

(b) any **one** from:

- not all cases are reported / recorded
  allow people may not know they have it
- (there may be) false positives / negatives
  allow idea of misdiagnosis
- references to population numbers only being estimates

1

(c) bar chart

1

(d) to compare

or

different cities have different population sizes
allow cities are different sizes

1

(e) high fat diet

1

smoking

1

(f) a stent

1

(g) less / no blood (flow)

1

(so) less / no oxygen (to heart muscle / cells)

1

(so) less / no respiration
allow less energy available ignore reference to lactic acid

1

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