# **IGCSE Biology Workbook Answers**

## 1 Characteristics and classification of living things

#### Core

 nutrition – taking in materials for energy, growth and development

respiration – the breakdown of food in cells for energy, growth and development excretion – the removal from an organism of

toxic materials and substances in excess of requirements

sensitivity - the ability to detect and respond to changes in the environment

reproduction - making more of the same kind of organism

growth - a permanent increase in size movement - an action by an organism causing a change of position or place [I mark for each cornect statement]

- 2 Any suitable sentence with seven words linked to the characteristics of life, e.g. Most Rats Start Gathering Rice Every Night
- 3 Across: 5 excretion, 6 nutrition, 7 respiration [3] Down: 1 sensitivity, 2 reproduction, 3 movement, 4 growth [4]
- 4 Respiration is the release of energy from food substances in cells. Breathing is the process of ventilation of the lungs. [4]
- 5 ref. to faeces being undigested food; which has not been formed through metabolic processes. [2]
- 6 (fish and amphibians)

Common features – any two from: cold blooded; have eyes; produce jelly-covered eggs (in water) [2] Differences: ref. to gills/lungs; fins/legs; scales/ moist skin [11]

(amphibians and reptiles)

Common features – any two from: four legs; eyes and ears; cold blooded; lungs (2)

Differences: ref. to moist skin/scales; jelly-covered eggs/waterproof shell [1]

(birds and mammals)

Common features - any two from: eyes and ears; warm blooded; lungs

Differences: ref. to feathers/fur; two legs/four legs; eggs with hard shell/live young; beak/no beak (or ref. to teeth); ears/ears with pinna; no mammary glands/mammary glands [1]

- A insect, B arachnid, C myriapod, D crustacean, E mollusc, F annelid, G nematode [7]
  - (3)

PSant	740	The .	254	286	3m	316-	Name of plant
A		1000	-		-	100	Principle Volgania
	1	7.0		-			Atancissus pseudionarcissus
C	-	at .	-		10	-	Ramonoulus ficania
0	363	-	1	-	-	-	Myacintholdes non-scripta

#### Extended

- 9 a i Any three from: multicellular; have roots/ stems/leaves; ref. to seed production (3)
  - iii Any three from: (cellulose) cell wall; sap vacuole; nucleus; cytoplasm; membrane [3]
  - b leaf shape broad; leaf veins parallel; cotyledons – two; grouping of flower parts – in threes
- 10 protoctists, fungi, plants, bacteria (4)
- 11 a Fungi any two from: presence of hyphae; ref. to mycelium; chitin in cell walls; no chlorophyll present; ref. to spores; enzymes secreted for food digestion [2].

Bacteria – any two from: small; cell wall – not cellulose or chitin; membrane/cytoplasm present; glycogen granules present; DNA in form of one coiled chromosome; no nucleus [2]

Viruses – any two from: very small; no special cell structure; have a strand of DNA/RNA; surrounded by protein coat/ref. to capsid; only show reproduction. [21]

- b virus, bacteria, fungi (1)
- c require a host cell to reproduce [2]



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