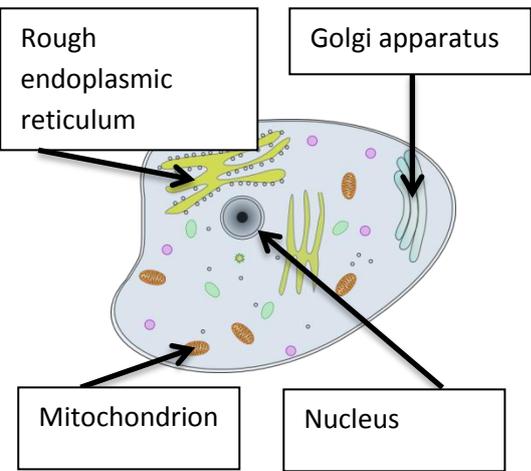


## Biology Week 2017

### Quiz for ages 16-18

#### Answers

Question number	Question	Answer	Points
1	Which gland secretes insulin?	Pancreas	1
2	Which base pairs with cytosine in DNA?	Guanine	1
3	Can you name these 3 famous biologists?	(L-R) Gregor Mendel, Jane Goodall, Charles Darwin	3
4	Name the structures of this animal cell	 <p>The diagram shows a cross-section of an animal cell. It contains several organelles: a large, dark, spherical nucleus with a nucleolus inside; rough endoplasmic reticulum (stained yellow) with small dots (ribosomes) on its surface; a Golgi apparatus (stained light blue) with a stack of flattened sacs; and a mitochondrion (stained orange) with internal folds (cristae). Arrows point from text labels to each of these four structures.</p>	4
5	How many chromosomes do humans have?	46	1
6	Which gas do we breathe out in the highest quantity?	Nitrogen	1
7	True or False? Xylem transports water and solutes from the roots to the leaves	True	1
8	Oncology is the study of...?	Cancer	1

9	Which chemical builds up in hard-working muscles?	Lactic acid	1
10	Approximately how many more bacterial cells are there in your body than your own cells?	10 times more	1
11	Which base is found in RNA but not DNA?	Uracil	1
12	Which of the following vitamins can be made in the skin?	Vitamin D	1
13	A shoal of fish... a gaggle of geese... a colony of ants... Name the following animal groups a) A ... of rhinoceroses b) A ... of owls c) A ... of porcupines d) A ... of bears	a) Crash b) Parliament c) Prickle d) Sloth	4
14	The honey fungus ( <i>Armillaria solidipes</i> ) is one of the largest organisms in the world. How big do you think it is?	a) 8.4 km <sup>2</sup>  <i>A single honey fungus colony was found in the Malheur National Forest, Oregon USA. It measures 8.4km (2,200 acres) in size, weighed as much as 605 tonnes and has been growing for around 2400 years! One of the reasons why it can grow to such a large size is because it grows slowly, expanding its network of fungal strands underground.</i>	1
15	Which animal would Sir David Attenborough most like to be?	A sloth	1
16	Approximately how many species of lizards are there in the world?	3000-6000  <i>There are currently over 4500 lizard species</i>	1
17	What does a herpetologist study?	Amphibians and reptiles	1
18	True or false? Sharks are colour blind	True	1
19	Which of these species has fewest genes?	<b>Chimpanzees (20,800)</b> <i>Humans (23,600)</i> <i>Mice (23,100)</i> <i>Rice (50,900)</i>	1