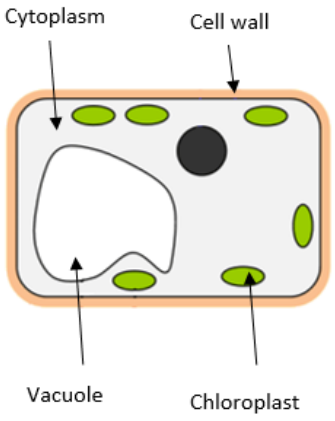
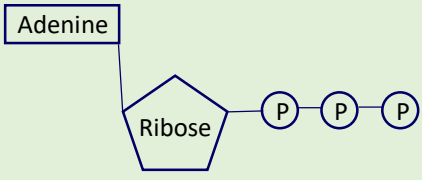


Biology Week Quiz for ages 16-18

Answers

Question number	Question	Answer	Points
1	Insulin activates enzymes involved in the conversion of _____ to _____	Glucose, glycogen	1
2	Which base pairs with guanine in DNA?	Cytosine	1
3	Can you match these three famous scientists to their area of expertise?	Watson and Crick – structure of DNA Edward Jenner – creation of vaccines (smallpox) Jane Goodall – primatology	3
4	Name the structures of this plant cell		4
5	If you work as an endocrinologist, what do you specialise in?	The hormonal systems	1
6	What percentage of each gas is our atmosphere made up of?	Nitrogen – 78% Oxygen – 21% Argon – 1%	3
7	Draw a molecule of ATP		3
8	What percentage of human DNA is identical in every individual?	99.9%	1

9	Which cells in human eyes are responsible for detecting colour?	Cones	1
10	Approximately how many more bacterial cells are there in your body than your own cells?	10 times more	1
11	Which of these native flowers is poisonous to animals?	Buttercup	1
12	What is the common name for the species <i>Panthera leo</i> ?	Lion	1
13	Elephants have a _____ surface area to volume ratio than mice	Lower	1
14	A mutation that causes a different base substitution but results in no change to the amino acid is known as what?	A silent mutation	1
15	What is the smallest measurement a light microscope can see?	0.2µm (micrometres), 2×10^{-7}	1
16	Fill in the gaps: Kingdom, phylum, _____, order, _____, _____, species	Class, family, genus	3
17	What does an ichthyologist study?	Fish	1
18	True or false: Elephants are herbivores	True	1
19	Which species has the greatest number of genes?	Rice (50,900) Chimpanzees have 20,800 Humans have 23,600 Mice have 23,100	1
20	What did Sir David Attenborough study at university?	Natural sciences (geology and zoology)	1