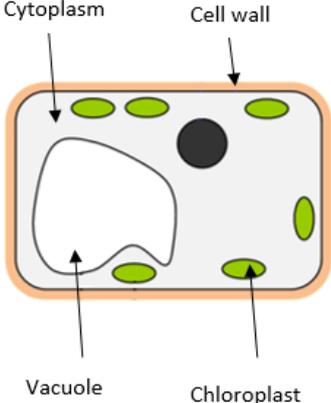


Biology Week Quiz for ages 13-15

Answers

Question number	Question	Answer	Points
1	True or False: some species of fungi glow in the dark?	True – known as bioluminescent fungi, the light is thought to be used to attract insects	1
2	How many stomachs does a cow have?	4	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	 <p>The diagram shows a rectangular plant cell with a thick orange border representing the cell wall. Inside, there is a large, clear, irregularly shaped vacuole on the left side. Several green, oval-shaped chloroplasts are scattered throughout the cytoplasm. A large, dark, circular nucleus is located in the upper right quadrant. Arrows point from the labels 'Cytoplasm', 'Cell wall', 'Vacuole', and 'Chloroplast' to their respective structures in the diagram.</p>	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	True or False: some mammals lay eggs	True – these are known as monotremes and consist of the platypus and the echidna	1
8	What percentage of human DNA is identical in every individual?	99.9%	1
9	Which animal group contains the largest number of individual organisms?	Insects	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	In cold weather, in humans and animals, hairs stand on end to trap what?	Air (to act as insulation)	1
14	The oldest tree in the UK is the Fotingall Yew in Perthshire. How old do you think it is?	4000-9000 years old	1
15	What is the smallest measurement a light microscope can see?	0.2µm (micrometres), 2×10^{-7}	1
16	Approximately how many species of lizards are there in the world?	3000-6000 (there are currently over 4,500 known species of lizard)	1
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