

## Biology Week 2015

### BioSoc Quiz Answers

The quiz consists of 5 rounds:

- 1) What's in a name? - 1 mark per question (10)
- 2) Anagrams - 1 mark per anagram (10)
- 3) True or False? - 1 mark per question (10)
- 4) Biology Categories - 1 mark per category (4)
- 5) Name the Creepy Crawly - 1 mark per picture (10)

#### Round 1: What's in a name? (10)

Question N <sup>o</sup>	Question	Answer
1	What are the names of the trio of scientists credited with the discovery of the DNA double helix structure?	Watson & Crick & Franklin
2	What is the scientific name given to the 'tusk'-like structure found on a Narwhal?	A tooth
3	What is the name of the organelle within all cells responsible for respiration activity?	The mitochondria
4	What is the name of the pathway, consisting of 10-enzyme catalysed steps, resulting in the creation of pyruvate, called?	Glycolysis
5	What is the name of the nitrogen-containing polysaccharide that forms the tough exoskeletons of most arthropods?	Chitin
6	What is the name of the Family from which bears originate?	Ursidae
7	What are the names of the bases that are found in DNA and RNA?	Adenine (A), Cytosine (C), Guanine (G), Thymine (T) and Uracil (U)
8	What is the name of the type of bonding that gives proteins their secondary structure?	Hydrogen bonding
9	What is the name given to an organism that is both reproductively male and female?	Hermaphrodite
10	What is the name of the famous scientist who invented a system of taxonomy in the 1700s?	Carl Linnaeus


**Round 2: Anagrams (10)**

Match the anagram to the corresponding word.

Clues are provided.

<u>Anagram</u>	<u>Clue</u>
The Ache - <b>Cheetah</b>	Speedy Cat
Toast Bin - <b>Botanist</b>	Plant Lover
Piebald - <b>Bipedal</b>	Upright Walker
Noisy Pram - <b>Parsimony</b>	Simplest Explanation
Oral Splotch - <b>Chloroplast</b>	Solar Power Plant
A Senior Trip - <b>Respiration</b>	$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$
Is Moist - <b>Mitosis</b>	Division of Biology
Carve Iron - <b>Carnivore</b>	Meat Eater
Obey Mr - <b>Embryo</b>	Unborn
A Dancer Whirls - <b>Charles Darwin</b>	HMS Beagle Explorer

**Round 3: True or False? (10)**

Question N <sup>o</sup>	Question	True or False?
11	The cells of animals are prokaryotic...	<b>False</b> They are eukaryotic.
12	Dolphins and whales do not drink water...	<b>True</b>
13	A Venus Flytrap takes less than half a second to shut on an insect...	<b>True</b>
14	All genes have two alleles...	<b>False</b> They can have more than two.
15	The following image was taken by a scanning transmission electron microscope (STEM)...  ZEISS Microscopy	<b>False</b> The image was taken using fluorescence microscopy.
16	Human gametes (sex cells) have a diploid number of chromosomes...	<b>False</b> They have a haploid number.
17	The average speed of a sneeze is 100 miles per hour...	<b>True</b>
18	Rhubarb leaves are poisonous to humans...	<b>True</b>
19	The large intestine is the heaviest organ inside the human body...	<b>False</b> The liver is the heaviest internal organ.
20	Humans share 50% of their DNA with a banana...	<b>True</b>

**Round 4: Categorise the words into the appropriate group (4x4), and then identify the theme of each group.**

(4)

FLEMMING

CLASS

PHYLUM

SECOND

SWAMP

PASTEUR

ORDER

KILO

CURIE

WOLF

MOLE

SPECIES

HOUSE

MENDEL

METER

ZEBRA

Famous Scientist	Type of Spider	Scientific Unit	Taxonomic Rank
Curie	Wolf	Meter	Species
Pasteur	House	Kilo	Order
Flemming	Swamp	Mole	Class
Mendel	Zebra	Second	Phylum

**Round 5: Name the Creepy Crawly (10)**

1



**Spider (Jumping)**

2



**Butterfly (Swallowtail)**

3



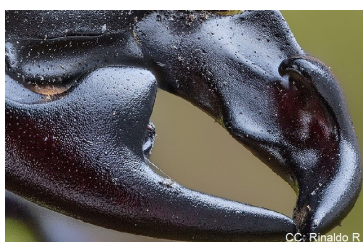
**Slug (Leopard)**

4



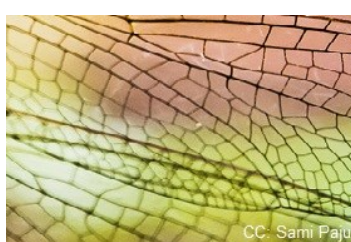
**Ladybird (Harlequin)**

5



**Stag Beetle**

6



**Dragonfly**

7



**Millipede (Giant African)**

8



**Caterpillar**

9



**Mantis (Mediterranean)**



**Wasp (Common)**



**How did you do?**

*Scores out of /44*

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**Thank you for helping us celebrate Biology Week 2015!**