CAM 19 - TEST 2 - PART 4

Tardigrades

For my **1.** _____ on **2.** _____, I **3.** _____ to **4.** _____ tardigrades. These are **5.** _____ — or to be more **6.** _____ — **7.** _____-**8.** _____ animals. There are well over a thousand **9.** _____ **10.** _____ of these **11.** _____ animals, which **12.** _____ **13.** _____ the phylum Tardigrada. Most tardigrades **14.** _____ **15.** _____ **16.** _____ from 0.05 to 1 millimetre, **17.** _____ the **18.** _____ **19.** _____ can **20.** _____ to be 1.2 millimetres **21.** _____ **22.** _____. They are also sometimes **23.** _____ 'water bears': 'water' because that's where they **24.** _____ **25.** _____, and 'bear' because of the **26.** _____ they **27.** _____. 'Moss **28.** _____' is **29.** _____ **30.** _____ for tardigrades because of the **31.** _____ they **32.** _____ when **33.** _____ from the **34.** _____. They were first **35.** _____ in **36.** _____ in 1773 by Johann Goeze, who **37.** _____ **38.** _____ **39.** _____ Tardigrada.

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As I say, there are many **40.** _____ **41.** _____ of tardigrade — too **42.** _____ to **43.** _____ here — but, **44.** _____ **45.** _____, the **46.** _____ **47.** _____ **48.** _____ similar **49.** _____ **50.** _____. They have a **51.** _____ which is **52.** _____, and also **53.** _____ — a bit like a **54.** _____ — and the **55.** _____ **56.** _____ four **57.** _____. Each **58.** _____ has a **59.** _____ of **60.** _____, at the **61.** _____ of **62.** _____ are **63.** _____ four and eight **64.** _____ **65.** _____. I should also say that some **66.** _____ **67.** _____ have any **68.** _____: what they have are **69.** _____, and these work **70.** _____ **71.** _____ **72.** _____ **73.** _____.

They **74.** _____ the tardigrade to **75.** _____ to **76.** _____ or to **77.** _____ its **78.** _____. **79.** _____ the **80.** _____, there are **81.** _____ **82.** _____, or any **83.** _____ for **84.** _____ at all. **85.** _____, **86.** _____ and also **87.** _____ are **88.** _____ in a **89.** _____ that **90.** _____ the **91.** _____ of the **92.** _____.

93. _____ **94.** _____ **95.** _____ the tardigrade's **96.** _____ is **97.** _____, the **98.** _____ **99.** _____ I can **100.** _____ this is that it **101.** _____ **102.** _____ **103.**

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_____ — a bit **104.** _____ even — though many of the **105.** _____ I looked at **106.** _____ its **107.** _____ as **108.** _____, which **109.** _____ **110.** _____ very **111.** _____. The tardigrade's **112.** _____ is a kind of **113.** _____ that can **114.** _____ **115.** _____ to **116.** _____ teeth-like **117.** _____ known as 'stylets'. These are **118.** _____ **119.** _____ to **120.** _____ **121.** _____ or animal **122.** _____.

So, where are tardigrades **123.** _____? Well, they **124.** _____ in every part of the **125.** _____, in a **126.** _____ of **127.** _____: most **128.** _____, on the **129.** _____ of a **130.** _____, or on many **131.** _____ **132.** _____ **133.** _____ or in very **134.** _____ **135.** _____. There's been some **136.** _____ **137.** _____ which has **138.** _____ that tardigrades are **139.** _____ of **140.** _____ **141.** _____ and very **142.** _____ **143.** _____, and they're also **144.** _____ to **145.** _____ **146.** _____ as **147.** _____ as **148.** _____ —200 **149.** _____ **150.** _____, or **151.** _____ of more than 148 **152.** _____ **153.** _____, which is **154.** _____ **155.** _____.

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It has been said that tardigrades could **156.** _____ long after **157.** _____ **158.** _____ have been **159.** _____ **160.** _____, even in the **161.** _____ of an **162.** _____ **163.** _____ the **164.** _____. If **165.** _____ **166.** _____ too **167.** _____ and tardigrades are **168.** _____ **169.** _____ of **170.** _____ **171.** _____, they **172.** _____ a **173.** _____ called cryptobiosis. They **174.** _____ a **175.** _____ **176.** _____, called a tun — that's T-U-N — by **177.** _____ their **178.** _____ and **179.** _____, and their **180.** _____ **181.** _____ to **182.** _____ than one **183.** _____ of **184.** _____ **185.** _____. They can **186.** _____ in this **187.** _____ for **188.** _____, and if **189.** _____ to **190.** _____, when they will **191.** _____ **192.** _____ to **193.** _____ in a **194.** _____ of a **195.** _____ **196.** _____.

While in this **197.** _____ of cryptobiosis, tardigrades **198.** _____ a **199.** _____ that **200.** _____ their DNA. In 2016, **201.** _____ **202.** _____ two tardigrades that had been tuns for more than 30 years. There was a **203.** _____ that, in 1948, a 120-year-old tun was **204.** _____, but this **205.** _____ has **206.** _____ been **207.**

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_____. There are **208.** _____ **209.** _____ **210.** _____ **211.** _____ **212.** _____ in **213.** _____, to **214.** _____ how **215.** _____ tardigrades might be **216.** _____ to **217.** _____ there. I believe the **218.** _____ **219.** _____ **220.** _____ is 10 days.

So, erm, moving on. **221.** _____ **222.** _____ **223.** _____ their **224.** _____, tardigrades **225.** _____ **226.** _____ **227.** _____ **228.** _____ **229.** _____ survive. Although they have **230.** _____, they **231.** _____ **232.** _____ these for **233.** _____. They **234.** _____ the **235.** _____ from **236.** _____, or **237.** _____ **238.** _____ from **239.** _____, but some **240.** _____ **241.** _____ **242.** _____ other tardigrades, from other **243.** _____ or within their own. I **244.** _____ this **245.** _____ **246.** _____, **247.** _____ that tardigrades are **248.** _____ **249.** _____ **250.** _____ **251.** _____ and are **252.** _____ with a type of **253.** _____.

Finally, I'd like to **254.** _____ the **255.** _____ **256.** _____ of tardigrades. It is **257.** _____ that they have been in **258.** _____ for **259.** _____ half a **260.** _____ **261.** _____ and, in that time, they have **262.** _____ five **263.** _____ **264.** _____. So, it

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will **265.** _____ come as **266.** _____ **267.** _____ to you, that tardigrades have not been **268.** _____ by the International Union for Conservation of Nature and are not on any **269.** _____ **270.** _____. Some **271.** _____ have **272.** _____ them as **273.** _____.

Does anyone have any questions they'd like to ask?

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