



ASTRONOMY: 2(A) Tests/Quizzes

Cosmology - Formative!

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Question

Answer stats

Note: questions displayed below do not include any HTML. To see the full question, click on "View Question".

Question 1: Which one of the following is NOT a possible scenario for the end of the Universe?

[See stats](#)

Big Bang: 14 (100%)

Multiple Choice - 1 point

Points Earned - Most: 1 · Least: 1 · Avg: 1

Question 2: Scientists have very strong evidence to support the claim that the Universe is:

[See stats](#)

13.7 billion years old: 14 (100%)

Multiple Choice - 1 point

Points Earned - Most: 1 · Least: 1 · Avg: 1

Question 3: Cosmic Microwave Background Radiation (CMBR) is very strong evidence in support of the Big Bang. CMBR can accurately be described as:

[See stats](#)

Microwave light: 2 (14.3%)

All of these answers: 12 (85.7%)

Multiple Choice - 1 point

Points Earned - Most: 1 · Least: 0 · Avg: 0.86

Question 4: An 'elementary' particle is called 'elementary' because it is not made up of any other particles

[See stats](#)

True: 11 (78.6%)

False: 3 (21.4%)

(No answer): 0 (0%)

True/False - 1 point

Points Earned - Most: 1 · Least: 0 · Avg: 0.79

Question 5: An example of an 'elementary' particle formed in the very early Universe is:

[See stats](#)

hydrogen: 1 (7.1%)

helium: 1 (7.1%)

an electron: 9 (64.3%)

a neutron: 3 (21.4%)

Multiple Choice - 1 point

Points Earned - Most: 1 · Least: 0 · Avg: 0.64

Question	Answer stats
<p>Question 6: Inflation began at which of the following exponent (power of 10) times after the Big Bang:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 1 · Least: 1 · Avg: 1</p>	<p>See stats</p> <p>-32: 14 (100%)</p>
<p>Question 7: Planck Time occurred at which of the following exponent (power of 10) times after the Big Bang:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 1 · Least: 1 · Avg: 1</p>	<p>See stats</p> <p>-43: 14 (100%)</p>
<p>Question 8: Fundamental particles formed at which of the following exponent (power of 10) times after the Big Bang::</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 0 · Least: 0 · Avg: 0</p>	<p>See stats</p> <p>-32: 1 (7.1%)</p> <p>-6: 12 (85.7%)</p> <p>-3: 2 (14.3%)</p>
<p>Question 9: The 'spacetime' geometry that would exist if the Big Crunch scenario is accurate would be best described as:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 1 · Least: 0 · Avg: 0.36</p>	<p>See stats</p> <p>hyperbolic (like ...: 7 (50%)</p> <p>spherical (round): 5 (35.7%)</p> <p>flat (like a disk): 1 (7.1%)</p> <p>like a huge triangle: 1 (7.1%)</p>
<p>Question 10: The 'spacetime' geometry that would exist if the Big Freeze scenario is accurate would be best described as:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 0 · Least: 0 · Avg: 0.29</p>	<p>See stats</p> <p>hyperbolic (like ...: 4 (28.6%)</p> <p>spherical (round): 5 (35.7%)</p> <p>flat (like a disk): 4 (28.6%)</p> <p>like a massive t ...: 1 (7.1%)</p>
<p>Question 11: The 'spacetime' geometry that would exist if the Modified Big Freeze scenario is accurate would be best described as:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 1 · Least: 0 · Avg: 0.36</p>	<p>See stats</p> <p>Hyperbolic (like ...: 2 (14.3%)</p> <p>Spherical (round): 5 (35.7%)</p> <p>Flat (Like a disk): 5 (35.7%)</p> <p>Like a huge triangle: 2 (14.3%)</p>
<p>Question 12: The "Big Rip" scenario for the end of the Universe is projected to occur:</p> <p>Multiple Choice - 1 point</p> <p>Points Earned - Most: 1 · Least: 0 · Avg: 0.5</p>	<p>See stats</p> <p>in about 10^{100} ...: 6 (42.9%)</p> <p>20 about billio ...: 7 (50%)</p> <p>2 about billion ...: 1 (7.1%)</p>
<p>Question 13: The "Big Crunch" scenario for the end of the Universe is currently considered very unlikely because:</p>	<p>See stats</p> <p>the Universe is ...: 6 (42.9%)</p>

Question	Answer stats
Multiple Choice - 1 point	the Universe is ...: 1 (7.1%) we can measure t ...: 7 (50%)
Points Earned - Most: 1 · Least: 0 · Avg: 0.5	

Question 14: Scientists believe that we are very close to using science and math to describe the period in time before "Planck Time."

True/False - 1 point

Points Earned - Most: 1 · Least: 0 · Avg: 0.36

See stats
True: 9 (64.3%)
False: 5 (35.7%)
(No answer): 0 (0%)

Question 15: The Universe of the far, far distant future described by the Big Freeze scenario (and in our reading: The Last Question) can best be described as:

Multiple Choice - 1 point

Points Earned - Most: 1 · Least: 0 · Avg: 0.93

See stats
Very, Very Dark: 1 (7.1%)
All of these: 13 (92.9%)