

ASTRONOMY: 2(A) Tests/Quizzes

## Cosmology - Formative!

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Questions

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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 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 yea ...:** 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%)

Multiple Choice - 1 point

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

**All of these ans ...:** 12 (85.7%)

**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><b>Question 6:</b> 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><a href="#">See stats</a></p> <p>-32: 14 (100%)</p>  |
| <p><b>Question 7:</b> 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><a href="#">See stats</a></p> <p>-43: 14 (100%)</p>  |
| <p><b>Question 8:</b> 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><a href="#">See stats</a></p> <p>-32: 1 (7.1%)</p> <p>-6: 12 (85.7%)</p> <p>-3: 2 (14.3%)</p>  |
| <p><b>Question 9:</b> 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><a href="#">See stats</a></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><b>Question 10:</b> 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: 1 · Least: 0 · Avg: 0.29</p>          | <p><a href="#">See stats</a></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><b>Question 11:</b> 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><a href="#">See stats</a></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><b>Question 12:</b> 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><a href="#">See stats</a></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><b>Question 13:</b> The "Big Crunch" scenario for the end of the Universe is currently considered very unlikely because:</p>   | <p><a href="#">See stats</a></p> <p>the Universe is ...: 6 (42.9%)</p>  |

## Question

Multiple Choice - 1 point

Points Earned - **Most:** 1 · **Least:** 0 · **Avg:** 0.5

## Answer stats

**the Universe is ...:** 1 (7.1%)

**we can measure t ...:** 7  
(50%)

**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%)