NORTHWEST TERRITORIES SCIENCE 10 · UNIT D · 10 QUESTIONS

The Universe and the Big Bang — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **SNOLAB is built deep underground so that rock above it can**

- A keep it near the Sun
- B keep it warm
- C make it easy to reach
- D shield it from cosmic rays

Understand It with Pulse | Flag a mistake

2 **Experiments on the space station can study how materials behave in**

- A near weightlessness
- B deep water
- C on the Moon
- D at very high pressure

Understand It with Pulse | Flag a mistake

3 **Canadarm2 is**

- A a rocket built in the United States
- B a Russian station module
- C a Canadian robotic arm on the station
- D a European telescope

Understand It with Pulse | Flag a mistake

4 **A Mars rover caches rock samples so that**

A astronauts can live on Mars

B a later mission could return them to Earth

C Mars can be made warmer

D a base can be built at once

Understand It with Pulse | Flag a mistake

5 **A galaxy with a larger redshift than another galaxy is moving away**

A more slowly

B toward Earth

C with more brightness

D faster

Understand It with Pulse | Flag a mistake

6 **A galaxy showing a blueshift is**

A approaching Earth

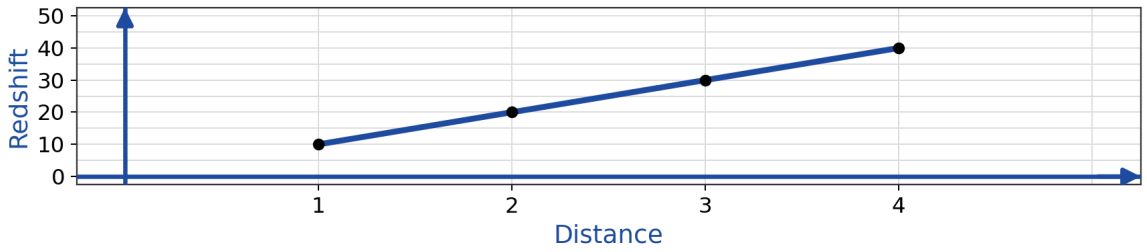
B receding from Earth

C exploding

D cooling down

Understand It with Pulse | Flag a mistake

7 **The graph shows redshift against distance for four galaxies. The redshift of the galaxy at distance 3 in the graph units, is _____**



ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Background radiation coming from all directions in space supports the idea of**

A a universe that never changes

B stars as the only source of heat

C a hot dense beginning for the universe

D a way to measure the temperature of Mars

Understand It with Pulse | Flag a mistake

9 **Many ground telescopes are built in dry high places because there is**

A warmer air

B less cloud and water vapour to block light

C less distance to the stars

D less gravity

Understand It with Pulse | Flag a mistake

10 **Light from a star has a rest wavelength of 600 units and an observed wavelength of 580 units. The size of the wavelength shift, in units, is _____**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. C
4. B
5. D
6. A
7. 30
8. C
9. B
10. 20

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