

P2 Revision Questions

Part 2

Question 1 of 50

- What is a galaxy?

Answer 1 of 50

- Large collection of stars

Question 2 of 50

- What is a probe?

Answer 2 of 50

- Unmanned space vehicle designed to travel beyond Earth's orbit

Question 3 of 50

- Give 3 reasons why people have to wear spacesuits in space?

Answer 3 of 50

- Visor protects eyes, pressurised and provides oxygen, protects them from radiation, keeps them warm

Question 4 of 50

- Give 2 advantages of unmanned missions compared to manned missions

Answer 4 of 50

- Can travel large distances, less fuel and money, no people at risk, can be used for longer amount of times

Question 5 of 50

- What is a satellite? What is a natural satellite?

Answer 5 of 50

- A body that orbits another body. A natural satellite is one that has been made naturally e.g.. The Moon

Question 6 of 50

- What is an asteroid?

Answer 6 of 50

- Small lump of rock that orbits the Sun in a 'belt'

Question 7 of 50

- What are 4 consequences of asteroids colliding with Earth?

Answer 7 of 50

- Tsunami, fires, dust flown in the air, craters, rocks raining down

Question 8 of 50

- What evidence is there for asteroid collisions with Earth?

Answer 8 of 50

- Craters, iridium (rare elements in craters), many fossils found below iridium layer

Question 9 of 50

- Explain the theory for how the Moon formed

Answer 9 of 50

- Earth and another planet collided, iron cores clumped together in Earth, rock came off to form moon

Question 10 of 50

- What evidence do we have for how the Moon formed?

Answer 10 of 50

- No iron in the moon, Earth and moon rock have same density, moon has same oxygen composition

Question 11 of 50

- Name 3 properties of a Comet

Answer 11 of 50

- Made of ice and rock, orbits the sun, orbit is an ellipse, has a tail that faces away from sun

Question 12 of 50

- What is a NEO?

Answer 12 of 50

- Near Earth Object

Question 13 of 50

- What 3 things could we do to prevent a NEO colliding with the Earth?

Answer 13 of 50

- Shoot it down with missile, change path with missile, monitor its path with telescopes/satellites

Question 14 of 50

- Give 2 reasons why small NEOs are not a threat to Earth

Answer 14 of 50

- Likely to miss Earth, burn up in atmosphere

Question 15 of 50

- What was Ptolemy's model of the solar system? How was this theory proved wrong?

Answer 15 of 50

- That all planets and the Sun orbited the Earth. Galileo proved it wrong using a telescope- he saw moons orbiting Jupiter

Question 16 of 50

- Describe what the Big Bang is

Answer 16 of 50

Big explosion that was the start of the universe. It created time and space began to expand. There was nothing before the big bang

Question 17 of 50

- What is the correct order for the formation of a small/ average sized star?

Answer 17 of 50

- Proto-star, main sequence star, red giant, White dwarf + nebula, black dwarf

Question 18 of 50

- What is the correct order for the formation of a massive star?

Answer 18 of 50

- Proto-star, main sequence star, red supergiant, supernova, then either black hole or neutron star

Question 19 of 50

- What is Red shift?

Answer 19 of 50

- Where light appears to have a longer wavelength (get redder) as the source is moving away from us

Question 20 of 50

- What is happening to all the galaxies around us? What does this show?

Answer 20 of 50

- They are moving away from us. It shows the universe/ space is expanding

Question 21 of 50

- Which galaxies are moving the fastest?

Answer 21 of 50

- The ones that are the furthest away from us

Question 22 of 50

- What is a black hole?

Answer 22 of 50

- Region of space with high gravity. Nothing including light can escape from it

Question 23 of 50

- What is Nuclear Fusion?

Answer 23 of 50

- Where hydrogen atoms join to make helium atoms at high temperature. This releases a lot of energy

Question 24 of 50

- What is a collection of dust and gas called?

Answer 24 of 50

- Nebula

Question 25 of 50

- What is a Protostar?

Answer 25 of 50

- A star that is very hot and emits light but has not started fusion