| NOMBRE: | Biology & Geology | FALTAS | NOTA |
|---|---|---|---|
| APELLIDOS: | **CURSO:** 1º ESO | Nº: | |
| **1st Term Exam** | **FECHA:** 2.11.2022 | P: | |

Observaciones:

1. **Select the objects that make up our solar system:**

| | | |
|---|---|---|
| Stars | Galaxies | Astronomical Unit |
| Rocky planets | Gaseous planets | Dwarf planets |
| The Sun | Satellites | Nebulae |
| Comets | Asteroids | Universe |

2. **Match each word with its definition:**

| **Year** | **Light-year** | **Rotation** | **Astronomical Unit** | **Revolution** | **Day** |
|---|---|---|---|---|---|

| | |
|---|---|
| | The distance from the Earth to the Sun |
| | The time that takes the Earth to revolve around the Sun |
| | The movement of a planet around its own axis |
| | The movement of a planet around the Sun |
| | The distance that light travels in one year |
| | The time that takes the Earth to do the rotation movement |

3. **Complete these statements:**

   a. According to the geocentric theory, the _____ was at the _____ of the universe.

   b. According to the heliocentric theory, the _____ was at the center of the universe and the _____ revolves around it.

**4. Check the main characteristics that make the Earth a habitable planet:**

| | |
|---|---|
| There is liquid water | It is very big |
| It is a rocky planet | It is the third planet in the Solar System |
| It has extreme low temperatures | Its atmosphere has oxygen and carbon dioxide |
| The atmosphere is rich in nitrogen | It has mild average surface temperatures |
| The solar radiation gives us light and heat | We are aliens |

**5. Complete the following sentences:**

a. A _____ is a natural object, such as the Moon, that moves around a _____.

b. An asteroid is a small rocky body orbiting around the _____.

c. When comets travel next to _____, ice melts creating a long and bright _____.

d. Our _____ consists of the eight planets and their moons in orbit around the Sun, plus smaller bodies such as _____ and asteroids.

e. Except for Pluto, the _____ of all planets around the Sun is more or less on the same _____.

**6. True or false?**

a. A satellite is a natural object that moves around a star. **TRUE** **FALSE**

b. The time that a planet takes to orbit the sun is called a year. **TRUE** **FALSE**

c. The time that a planet takes to rotate on its own axis is called rotation. **TRUE** **FALSE**

d. The orbit of planets around the sun is called revolution. **TRUE** **FALSE**

**7. This theory says that the Earth is at the center of the Universe and everything revolves around it**

| |
|---|
| Big Bang theory |
| Geocentric theory |
| Heliocentric theory |
| Universe theory |

8. **Which is the phase of the moon where we can see the right side of the Moon?**

| |
|---|
| New moon |
| First quarter |
| Last quarter |
| Full moon |

9. **The most accepted theory about the origin of the Universe is the...**

| |
|---|
| Geocentric theory |
| Big Bang theory |
| Heliocentric theory |
| Universe theory |

10. **Mars is not a habitable planet because...**

| |
|---|
| It is too far from the Sun |
| Its atmosphere is made up by Carbon Dioxide |
| There is liquid water |
| It has two satellites: Phobos and Deimos |

11. **Which is the sixth planet in the Solar System?**

| |
|---|
| Venus |
| Jupiter |
| Uranus |
| Saturn |

12. **Which planet is bigger?**

| |
|---|
| Mercury |
| The Moon |
| Venus |
| Pluto |

**13. Which is the movement of the Earth around the Sun?**

| |
|---|
| Ecliptic |
| Revolution |
| Rotation |
| Translation |

**14. How many planets do we have in the Solar System?**

| |
|---|
| 7 |
| 10 |
| 9 |
| 8 |

**15. What does the revolution movent cause?**

| |
|---|
| The Seasons |
| Gravitational forces |
| Day and night |
| Earthquakes |

**16. What's the name of our galaxy?**

| |
|---|
| The Universe |
| The Earth |
| The Solar System |
| The Milky Way |

**17. Which is the movement of a planet around its own axis?**

| |
|---|
| Ecliptic |
| Revolution |
| Rotation |
| Translation |

**18. Which of the following words is not a celestial body?**

| |
|---|
| Planet |
| Star |
| Tide |
| Comet |

**19. Jupiter...**

| |
|---|
| Is a gas giant planet |
| Is a rocky planet |
| Has no satellites |
| Is a dwarf giant |

**20. Select the WRONG option about comets:**

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|---|
| We can see a tail formed of melted water |
| They are made of rock and ice |
| They are made of rock and fire |
| Its ice melts when it comes near to the Sun |

**21. A light-year is a unit of...**

| |
|---|
| Distance |
| Time |
| Universe |
| Kilometres |

**22. The seasons are NOT caused by:**

| |
|---|
| The revolution movement |
| The rotation movement |
| The tilt of the Earth's axis |
| The tilt remains constant |

**23. The heliocentric theory...**

| |
|---|
| Is TRUE because the Sun is at the center of the Solar System |
| It was proposed before the geocentric theory |
| Says that the Sun is at the center of the Universe |
| It was proposed by Aristotle |

**24. About the Universe...**

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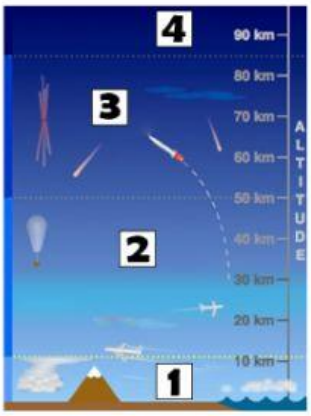
|---|
| Everything revolves around the Earth |
| Everything revolves aroud the Milky Way |
| Everything revolves arount the Sun |
| We don't know where the center of the Universe is |

**25. Why do we always see the same side of the Moon?**

| |
|---|
| Because of the gravity between the Moon and the Sun |
| Because the rotation period is the same as the revolution period of the Moon |
| Because lunar phases make us see the same side always |
| We only see the same side when it is Full Moon and the rest of the days we see other sides. |

**26. Drag and drop the name of each atmospheric layer and their main features:**

| | | | |
|---|---|---|---|
| **Mesosphere** | **Stratosphere** | Is where most meteors burn up | Reflects TV and radio waves to the Earth. |
| **Troposphere** | **Thermosphere** | Meteorological phenomena takes place here. | Contains the ozone layer that protects us from harmful solar radiation |




| Name |
|---|
| 4. |
| 3. |
| 2. |
| 1. |

| Feature |
|---|
| |
| |
| |
| |

**27. Which is the gas that is in the highest propotion in the atmosphere?**

| |
|---|
| Nitrogen |
| Oxygen |
| Carbon dioxide |
| Ozone |

**28. Where can we find the ozone layer?**

| |
|---|
| Troposphere |
| Mesosphere |
| Stratosphere |
| Ionosphere |

**29. Which gas is responsible of the Greenhouse effect?**

| |
|---|
| Ozone |
| Greenhouse gas |
| Carbon dioxide |
| Nitrogen |

**30. The air...**

| |
|---|
| Is another way of saying oxygen |
| Is a mixture of gasses. |
| Is all the water on the Earth's surface |
| We cannot touch it |

**31. Carbon dioxide is necessary for...**

| |
|---|
| Photosynthesis |
| Ozone layer |
| Respiration |
| Combustions |

**32. About the greenhouse effect:**

| |
|---|
| Is the reason why we have mild average surface temperatures |
| We have extreme low temperatures at night |
| Is bad for living beings |
| It's a lie that politicians makes us believe. |

**33. About the greenhouse effect:**

| |
|---|
| An increase in the amount of carbon dioxide would decrease eh Earth's surface temperatures. |
| Nitrogen is the main gas responsible of the greenhouse effect |
| Ozone protects us from harmful ultraviolet radiation |
| Carbon dioxide reflects part of infrared solar radiation |