

Astro Physics Job Interview Questions And Answers



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Astro Physics Interview Questions And Answers Guide.

Question - 1:

What is Lunar eclipse?

Ans:

If three bodies sun, earth and moon are situated in a straight line, at the time of the moon entering the shadow cone the moon will be totally obscured, thereby giving a total lunar eclipse. If they are slightly out of line, only a part of moon enters the umbral cone and a partial lunar eclipse occurs. This occurs at full moon when moon enters that shadow of the earth, as cast by the earth.

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Question - 2:

What is Solar eclipse?

Ans:

At new moon, earth may pass through moon's shadow so that parts of the sun will be obscured to the eyes on the earth. Earth being much bigger than moon, whole of it cannot pass through the umbra. But as the points on the earth will fall within this umbra, a total solar eclipse occurs. At places which pass through penumbra, a partial solar eclipse occurs.

Eclipses do not occur regularly even though the earth comes between the moon and the sun at every full moon. It is because of two reasons:-

- (1) The moon's orbit is inclined to that of earth at an angle of about 5° .
- (2) The earth's orbit being elliptical, the distance of the earth from the sun is different at different positions of the orbit, due to which the size of the shadow changes.

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Question - 3:

What is Astronomical telescope?

Ans:

It consists of two convex lenses. These lenses are called object glass and eye piece respectively. A real, inverted and diminished object is formed at the focus of the object glass. This image lies within the focus of the eye piece which acts as a magnifying glass, producing a virtual, erect, enlarged image of it. The first image thus seen is magnified, but inverted with respect to the object.

Magnifying power = F/f

Where F is focal length of object glass, and f is focal length of eye-piece.

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Question - 4:

Who discovered Proton?

Ans:

In 1886 Eugen Goldstein discovered canal rays (also known as anode rays) and showed that they were positively charged particles (ions) produced from gases. *Menas, originally*



Goldstein postulated that there were some positively charged particles... but he didn't say that they were Protons!!
Following the discovery of the atomic nucleus by Ernest Rutherford in 1911. This was confirmed experimentally by Henry Moseley in 1913 using X-ray spectra. In 1919 Rutherford proved that the hydrogen nucleus is present in other nuclei, a result usually described as the discovery of the proton.

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Question - 5:

What is Chandrayan?

Ans:

Chandrayan is a satellite which is discovered on the moon i.e. it is for finding life on the moon

Objectives of Chandrayan were:

1. To design, develop, launch and orbit a spacecraft around the Moon using an Indian-made launch vehicle.
2. To conduct scientific experiments using instruments on the spacecraft which would yield data:

for the preparation of a three-dimensional atlas (with high spatial and altitude resolution of 5-10 m) of both the near and far side of the Moon,

for chemical and mineralogical mapping of the entire lunar surface at high spatial resolution, mapping particularly the chemical elements magnesium, aluminium, silicon, calcium, iron, titanium, radon, uranium, and thorium, to increase the scientific knowledge

to test the impact of a sub-satellite (Moon Impact Probe - MIP) on the surface of the Moon as a fore-runner to future soft-landing missions

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Question - 6:

Do aliens really exist?

Ans:

SETI (Search for Extra-Terrestrial Intelligence) is a branch of Astro Physics which searches for the same which you asked! Search for Extra-Terrestrial Intelligence (SETI) is the collective name for a number of activities people undertake to search for intelligent extraterrestrial life. SETI projects use scientific methods to search for electromagnetic transmissions from civilizations on distant planets.

There is one more such name: NTI - Non-Terrestrial Intelligence... means this intelligence doesn't live on Earth/Land... It may lie beneath the oceans!!

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Question - 7:

WHAT ARE THE FORCES WHICH KEEP A FLYING PLANE IN AN EQUILIBRIUM?

Ans:

For level flight lift is balanced by weight and thrust is balanced by drag, hence then the whole system becomes stable w.r.t. to force and for moments, inherently stable aircraft are designed in a way that the pitching moment is balanced by horizontal stabilizer, elevator may be deflected for trim at certain velocities where it's not changing the moment curve slope, and for roll and yaw stability both aileron and rudder may be used as they are cross-coupled. Aids in roll and yaw stability may be provided by high wing, sweep back, dihedral wings etc

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Question - 8:

How many planets are found till now?

Ans:

eight;
Pluto isn't considered a planet any more.

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Question - 9:



Why we feel sky blue in color?

Ans:

The blue color of the sky is due to Rayleigh scattering. As light moves through the atmosphere, most of the longer wavelengths pass straight through. Little of the red, orange and yellow light is affected by the air. However, much of the shorter wavelength light is absorbed by the gas molecules. The absorbed blue light is then radiated in different directions. It gets scattered all around the sky.

Whichever direction you look, some of this scattered blue light reaches you. Since you see the blue light from everywhere overhead, the sky looks blue.

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Question - 10:

Explain Shape of the earth?

Ans:

Shape and size of the earth. The shape of the earth is regarded as a sphere, but it is actually an oblate spheroid like an egg being slightly flattened at the poles.

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Question - 11:

What is Equatorial and polar diameter?

Ans:

The equatorial diameter. The equatorial diameter of the earth is 7920 miles in length and polar diameter is about 27 miles shorter than the former.

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Question - 12:

What is The weight of the earth?

Ans:

The earth and its weight. It is impossible to find out the weight of the earth by any type of balance. If we express it in tons, the number of zeros required to do so would occupy almost more than half of a volume of this book. Therefore, we will try to express it in a simpler way as follows.

Take an example of hollow ball of the same size as the earth consisting entirely of water (i.e. a solid ball of water). If we weigh this ball we find this $5\frac{1}{2}$ times lighter than that of the weight of the earth. This actually means that the relative $5\frac{1}{2}$ or 5.5.

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Question - 13:

Magnetic effect of the earth is?

Ans:

Magnetic effect of the earth. The earth behaves as if it has got a big magnet, running almost from its north to south pole inside it (the earth).

Its south pole lies towards the geographical north pole and the north pole lies towards the geographical south pole. As a matter of fact, there is no such magnet inside it, but our earth, as a whole, acts as a big magnet, we can prove this fact with the help of the following experiments.

(1) one can magnetise iron

rods by the earth. This is possible only when the earth behaves like magnet or it has got magnetic material (a big magnet) inside it.

(2) when we suspend a magnet.

Freely, it always rests in a particular direction almost coinciding with the north and the south direction. It is only possible when we presume that there is magnet inside the earth of which north pole is towards the geographical south pole and south pole is towards geographical north pole.

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Question - 14:

Distance of the earth from the moon and the sun is?

Ans:

the distance of the earth from the moon is 2,40,000 miles or 24×10^4 miles and that from the sun is 93,000,000 or 93×10^6 miles.

The moon is more than one light



second and the sun 8 light minutes away, i.e. light traveling at 1,86,000 miles per second takes just over a second to reach from the moon and about 8 minutes from the sun.

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Question - 15:

What is The sun?

Ans:

The sun:- Sun the brightest object in the sky. It is body in the solar system. It has a luminous sphere approximately 8,65,000 miles in diameter. It is supposed that it consists of a liquid inner portion with a gaseous outer covering. All kinds of the life on the earth and on other members of the solar system depend directly or indirectly upon the radiation from the Sun

The average distance of the earth from the sun is about 93,000,000 miles. If we compare the great size of the sun with the earth, to do so we have to represent the earth by the head of a pin struck in the teacher's desk, the sun would be shown by a big ball at the other end of the class room. Spectral analysis shows that sun is composed of many elements such as found in the earth. Its surface temperature is about 6,000°C. The volume of sun is 1,300,000 times that of the earth and its mass is 332,000 times that of the earth.

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Question - 16:

What are The Stars?

Ans:

The star is made up of dust and gas in space.

Basically it has so many stages

they are

1. black hole
2. neutron star
3. supernova
4. red giant stage

our solar system consists a big star name sun which is attracting 8 other planets with its gravity.

It has an expected age of 10 billion years.

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Question - 17:

Explain The Moon?

Ans:

The Moon:- It is the only natural satellite of the earth revolving round the earth. It takes one revolution round the earth takes approximately one lunar month (of 29 days). This period varies by 13 hours due to the eccentricities of the orbits of the moon and earth. Unlike the sun and the stars, its shining is seen due to the reflected light which comes from the sun. The diameter of the moon is lesser than one quarter that of the earth. Compared with the sun the moon is quite near to the earth (only 240,000 miles away). The diameter of the moon on several calculations found to be 2160 miles.

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Question - 18:

Explain The planets?

Ans:

The planets:- We know in the solar system that the sun is fixed and that moving round it are a number of large spheres known as planets. These are nine planets, viz., the Earth, Neptune, Pluto, Uranus, Saturn, Jupiter, Mars and Mercury

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Question - 19:

What is Eclipses?

Ans:

Sun is a luminous body whereas earth and moon are



non-luminous bodies. Only those parts of moon on which light of sun falls is visible. Also sun is larger than, both the earth and the moon so that shadows of both are cast in space with a distinct umbra and penumbra. These shadows are called eclipses.

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