**Have you got three mark answers to these 21 possible questions?**

Observing the sky

1. Explain why the moon takes 25 hours to rise each day
2. Explain why stars take only 23 hrs 56 mins to rise each day (hint 360)
3. Explain why the sun takes 24 hours to rise each day (spin axis)
4. Explain why the planets make complicated patterns in the night sky
5. Explain the phases of the moon (hint diagram)
6. Explain eclipses and why they are so infrequent (hint-its not lilt)
7. Explain how angles can be used to find astronomical objects (hint sphere)
8. Explain why a sidereal day is 4 mins less than a solar day (hint-360)
9. Explain why different constellations are visible at different times of the year

Telescopes

1. Explain why eyepiece lens has to be more powerful than the objective
2. Explain how concave mirrors bring light to a focus (hint diagram)
3. Explain how parallax helps find distance to near by stars
4. Explain how a smaller parallax angle means the star is further away
5. Explain why Radio telescopes are so much larger than optical telescopes

Scale of the universe

1. Explain how what factors affect how bright a star appears to be
2. Explain how Cephied variable stars help astronomers find distances to stars
3. Explain how Hubble used Cepheid variable stars to put scale to the universe

Gases and stars

1. Explain the formation of a Protostar in terms of collapsing gas cloud
2. Describe the forces on protons in a nucleus
3. Explain our stars life cycle
4. Explain the life cycle of a star several times larger than our own

If you are prepared for these questions, you will pick up far more marks.

Examiners have mark-schemes – think what 3 points are there for the three marks?

**Can you see the hints of the markscheme in the question?**