GSA Q: What is blackhole, How black holes are formed and discovered? (5) Overall, all the answers are Blackhole:- good. Blackhole is an object of entreme density and high gravitational force to the exten that nothing, even light cannot escape - Phey resulted the matter is compressed in a very tiny space- 9+ happens when the life of star is ending or at its death As, no light escapes from it, but that so why it is invisible called blackhole Telescopes can be placed in them which can track Ithem Formation of blackhole: Blackhole is formed in the stars which have to large amore of energy or heart, even greater

than the Sun So when they of this energy, collapse of un stai rappen. going inv centinuously the Thies heat generates stal which isue interna provides heat balan 11 # sun, th the Fusion reaction force of star Stal energy nternal ressure stal Gravitational me o stal fusion reaction, Helium is formed 9n etals then forms heavy etc. Sa like non, copper, mapnesium internal pressure of star is decrease gravitadenal and balance between the force and internal pressure of star the Matter when disturbed centre to concer started stare collapses That's why and lo ca lea black the collapse

Discovery of blackholes-The work plackhole was first started in 1783 by John Micheal . Then Albert Einstein gave its idea by his there Frelativity in 1916. Then 1931, Astrophysit Subrahamnayan Chandsekher said that when a stole bigger than sun uses all of its face, it then collapses and highly densed mass. He way given Nobel prize on it in 1983. The name was given by John wheeler in 1967. later on, gausaes were discovered which proved the existence of blackholes, with the second Q: Differentiate between Solar eclipse and Lunar eclipse? Lunal Eclipse-Earth orbits around the

SIL alound while moon orbits Earth Comel When dho. Earth moon coaden and in between lunar eclipse occur Sun Earth the light from SUL blocks Moin and it dallepr renumbra ymbra Prenumbra Earth Moon Types of lunar eclipse: Prenumbral Runas eclipse: when the moon pauses through the prenumbra region of Eauth?s shadow. Partial lunar eclipse: parses a part of moon when through the umbra region of Fareths 1 and state shadow. Total lunae eclipse: total moon parses. where a through the umbra of Earth

Solar Eclipse: When moon while orbit ound the Earth con between the Sun and t blocks the light Earth - 9 reaching the Earth from Midon's Prenult Sun Perlipse Types of Solar eclipse: Partial Dunal eclipses When Earth, moon and Sy not directly aligned in one lin Total lunar eclipse: When moon completely cover the sun It is seen from very small area on Earth. Annular solar eclipse: when a small object like moon is in between th

the Sun and the Earth, light escapes and falls on the sur of the Earth and gives of begad like pattern called Baily Beads or the lovely Piamon ring effect. Solar Eclipse Lunac Eclipse When moon is in when Earth is in between the ma Eart bridgen the moon and and the sun; obscriet the sun, obscuring the Earth the moon. Appeness at the time Appears at the time af new-moon of full moon 9.4 loccing even 3. A Occurs 3-4 times 18-months al mos in a year. At is not safe to Safe to look at look at solar eclip lunal Eclipseine Appears for a very So Can be seen from short time, so difficult ebse the Earth Threetypes 6.Three types Prenumpral Aginacedipre 1- Partial solar e clipse 2. Total !! 2 Partial U. 3. Asteroid 1 3. Total Uni

تاريخ. __/__/_ Differentiate b/w star and planets Q: What is the magnitude of a star and now the color of the stat is correlated with temperatures Stag:-A celestial object that emits its own light through the chemical reaction i.e. fusion reaction centre H+H cheat > dignt Fusion He Reaction He Star Planet:-Planet is an object which takes its light from the stal and revolves around a star. Planet Star 2 Star emits its own Planet takes the light light throug fusion reaction from stal. 2. Planets revolve around Statellites revolve around the store planet. Stay moves around the Planets revolve asound entre of their galaxy the start in an orbit

Planet 1_1_ Star have low temperature. Stars have very high Ralle temperatures like cur light from sta 10 5500-6000°C Contants are liquide are Hychopen Contents gases, solids or complinator Helium, light. Example: ... Excamplo: Earth, Venus The sun, Pistop Mayete Stal etc. agnitude of stall-The magnitude of any stat rorrelated with its brightnes Stars having be high brighthere wi have low magnitudes and vice versa. Magnitudes are ranged from 2-6. Magnitude of 1 has the blighest brightness and that of 6 is low The brightness of Sym is -26.7 and that of Sirius star is the 1.96- Absolute magnitude is the brightness of an object located at 10 parsece.

Absolute magnitude of star is 4-6 Loto Correlation with temperaturesis correlate the stal its temperature. Hot real in color, while store an one are less pot and the yellow are least. The hot star siring with surface temprerature of 9400K, it emits more blue ligh so it looks brighter through blue filter and vice versar Briefly explain what effects are produced due to Rotation and Revolution of Earth: Rotation of Easther Rotation of parth is the movement of earth around its own a newst At takes almost 23 hours, 56 minutes and 4.1 secs It votates in auti-clockwise direction

fects of rotation of night ranges sin day and Earth moves clockwise dilection cuow drits and the part which faces the sun will have a day time while the part away from sun emperience night time. As, Earth spins from west to East, the sun rises from the east. Deplection of the Air currents. Potation of the earth deplection of oceans and annest through a process corribles effect. Air in the merthen hernight movies degle at to the light while in southern horisph currents deflects towards the left. Occurrence of high tides low tides Ealth-Kevolution 0 orbiting around also no own

كاري _1_ orbit around the sun in an Fall called as Revolution o takes about 365.25 daugs complete one revolution of revolution o Effects Earth hanges in season. revolver As the earth the sun, part of it movestilt a part towards the sun and away from it. The part of the Earth which is closer to sun will experience summer season, while the part which is away from sun will experience winter season. When the North pole tilts towards the Northein hemisphere cuill experience summer ut And, at the same time southus henrisphere a tille towards the sun will experience winter and vice errlq. dd more subpoints.