Astronomy Asisonomy: derived from a greek word "slari Nomos" means, "Law or culture" Autonomy is a , law of culture of reary NASA defines astronomy: as sludy of sears, planets and Astudy of the sun, moon, rior, planets, comets, gas a other non earthly galaxies, gas aux bodies and phenomed -> ready of the universe & celesial bodies, gaspust - include observation / theories about solar system totality of everything that matter and rians, galaxies and the contents blu space scars = internellar A risonomical rpace space b/w galaxies entergalactic 1) a system mea surement 47 Adopted by the greenational union IAU in1976 significantly updated in 1994 & 2009.

SI = enternational system of units. was develope by a difficulties and expressing astronomical data in ASOU > tridimeneral system - mass I re only. cronomica unit 365.25 days dyried as 86400 rec Artronomical unit of me is equal to ru mass siandard way to express describe man of their scans & galaxies Arisonomical unit of length: average distance b/w with rollsomanical approx. 150 m 149,597,870,700 m Muge distances => light year => Parsec Light year: distance that light can travel in one year in a vacum, which is about 5.8 x10 miles or 63, 240AU or 946053 x162 km is a unit of distance 526 light years or 3.085678 X10"Km It is the distance at which a star would have parollear of see of are.

Unigin of the Universe The problem of the origin of the universe a bit like the old question: which came Disse, the chicken or the 13 on other words the wo created agency? OR perhaps, the or the agency that created T porever, and did not need to To leave created" (Stephen howking) T Past paper question: T Briefly describe the most popular ; accepted theory about the origin of T Big Barg Heory Considered the province paperer & at pepter theory about the universe. All mother some partiles forming the universe are reft 2 existed in one place. exployed in the form of ting ball. Hal is significant singularity atom unimaginably small volume finger to temperature & infinite more niable Maller opposite types / destroyed denvity Profon each other proton ( of parente / (3) minules Newtro ( temperatue God lenoyh dropped 1 atomic - aira neuch each 20,000 years \_ -> couled · pillion DC to form of prob togethe hydrog / Helian atom Lydrog gas Unierse · Helium Hydroge

 $\Rightarrow$  9t was given in 1920 believe He universe began => Astronomers a bigbang about 13.7 billion years ago inside hotter named denser Time | space | matter - all began with the Big Barg. secoure The universe grew smalleracom ager Han a galaxy and rearried expande (will expanding 4) Universe expanded [coDled energy danged into partilles of matier and antimater Lapposite Types particles devisoged each other 4) some survived -> more siable particles could proton and neutron niaried to form when the universe was 1 sec old. ove the next (3) minutes -> temp dropped -> below 16; elion DC e proton formery come pelium ptomic captur ) At Universe Called 30000 400 DC 7 Afrier 30,000 years -Atoms clouds & Hydreys Universe was ned the

clouds of duri and gasses formed all celesial boards afterwards.

The bigbang theory begans as a hot and infinitely dense hot , infine dense point millemetters only a few mm wide was similar to supercharged blackhole violently exploded And from this explosion, this barg that all matter, energy, space and time were created. Conciseness is fine! two majour stages of the Universis evolution Le ches Notes 2 July / Kindly / e. / m m 3 inori Attempt and upload proper questions for evaluation; not notes