5100 en. Describe the life hostory of KIDSTOC . TW- CLASSIFICATION: Occording to Fritch Glass- Mexophyceane ordors Nostocales taminy -> NOSTOCOLEGER Crenus - Nostoc species -> apout 23 The plant mame was of used by Paracelsus. It also known on stargelly whiches by Her etc. The plant is comm only goand in Fresh water pond pools etc. But it is also found in rike field were wet weeks, barkary tree and endophytic. The splants ar found in the form of pean thead colony. The fitom & Each colony consisting large nomber of tropped (5231 8311) 471come The Friconies are covered by gelatenous sheate The tricome 18 morde up by large number of cells urrenged in bedded mainer The Fricome is usually un branch and sunded by sheeth. All the regalative cell of trice

are similar in structure which may be spherical or, barrel shaped. In filaments at inte rval there present some lange coulouriess empty barrelish apped cells called hetrocyst. They are shicker and larger Than The vegetative cells Hetrocyst may be intercas Mor nodules are Joresent in intercallary hetrocyst ut single pollar nodules present in tyrm, found singly or, present CELL STRUCTURE ; The · Vegateitive cells of tricomes are proces syotic in nature consisting following structures: Sheath and cell wall The cells are surounded by extracellular mucilage layer external to the cellwall. Cell wall is made up by cellulose, consisting four Idyar: Inside the dellusell rell membrane is present

Photosynthetic aparatous = Te Protoplast is déferenciated in outer pigmented chromoplasn and inner centroplasms there 18 chil A Bearotein, ephy coupin and c phy coerethrine Nucleus oucleus is present in the form finopient where ouclear me borbrane and nucleolur 18 ab-GRANULES: soifferent type grenutes somes, « granules, Byranules etc. are present. Beside Aus Vacuoles are absent. But psebolo vacoules are present Vegatestive and asexual report is found, nohore as Sexual reproduction is totaly Obsent she most common methode of reproduction FRAGINE NTATION "-In the process re colony break into the two to wany gragment by

any methods. Then teach fragments developed into new 2) HARMOGONIA: SIT IS mou Common metho. ols of reproductions the sort degments af living cells is called harmogenia. It Each developed toy break into multicelyular segments on Loon the point of tetrock The harmogowia comes out from The mucilage and developed into neu colony. 3) AKINITS & Thes is stre which developed by vegeta Livercells when the conde Dions is ungavourable shope cells surrounded by thick wall and stored resurb food material jeneraly In between Ino het 86_ c. 484 réééquative ce 118 Change into akinits. ETEROCYST " These are specialise cells Aho'ck wall

and homogenous content Sometimes it becomes fon Honals and deving germina. tion the contents divided into two cell then four cell structure, nowich 18 called germiling. The parent cell words rupt wired and The germining developed into new colony. 3-JENDOSPORES , In Some species éndo-speres aveloped. nouich germinat into new plant. LA Lagaraff (1962) reported two phase in lêge Cycle as hetrocystous Bhase and sporagenous phase cystour phase the tricome break up at heterocyst Do form modyle hormo. gond. The terminal cells change into heterocyst but intertallary cells dowede into group of undiferenciated cells which Lound in chain Each chown Ehange into men trichome in the presence a

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In sporage hour phase
The chain of undifferentiated
all developed into long trichomo without thetorocyst.
But trichons break into fran gment and end cells ellange into theterocyst from the intercallary cells spore is developed which change into new trichomo.