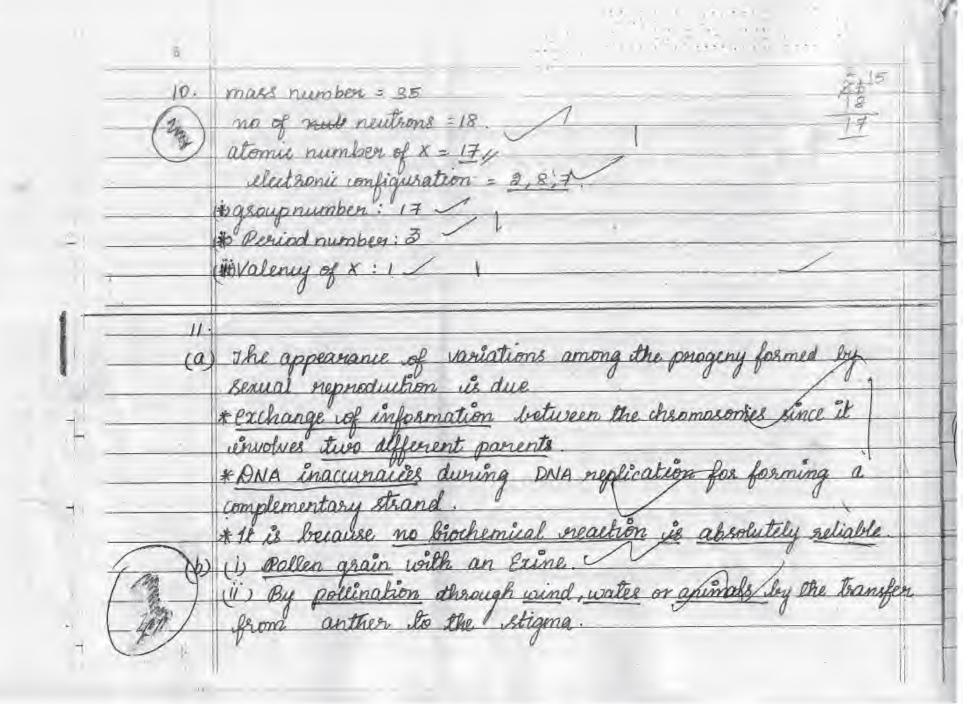


t as the factor has present the speed of light in all 9 x108 = Speed of light in water = 2.25 × 10 m/s -> speed of light in water The four stakeholders are namely; \* the people who live in and around the forest by seeking livelihood from forest products etc. i.e., habitants of forest.

\* The forest department who controls the forest land and area by regulating the actions in forest by outsiders \* The wild life conservationasts and enthusiasts who wants to preserve

Social puollems \*It is because of the construction of mago projects construction of dams. Social problems also include their Environmental Problems the dam structure. Biodiversity is completely destroyed who Electronic configuration valence electrons in Rb: #5 (iii) number of shells in Sn: 5 (vi) Be, Mg, Ca, Rb.



(iii) I is the pollen tube that carries the male gamete from (Pollen grain Stigma through style to the embryo sae to fertilise with (iv) offer fertilisation is over, zygote deformed as the result of fusion between male and the female gamete 12. The treation of new individuals from the existing individuals on individual for the species to survive is called reproduction The consistency of the DNA is maintained inonder to organoduce Similar kind of organisms with some londy design for the organism to fit to a particular siche thus, reproduction stability tof the population of species It uncreases population size, that makes us to notice the particular ning y retirable tully differentiated on multicellular organisms has the ability to the banger the organism is tut or broken. The specialised cells in i

mass no of cells. These mass: number of cells repenate and develop into different stouchures in the body in an organised sequence called development. In simple organisms like suyana, negenatrative cells proliferate and give rise to large number of cells and form into a complete organism whereas negeneration cannot be same as negeneral reproduction as organism will not depend on being cut up to be able to reproduce.

This is an asexual mode of reproduction this also takes place in Planaria.

\* Evolution and classification are interlinked.

\* classification is done according to the similarity of characteristics among organisms which possesses same particular form or function" in a hierarchy.

\* \* ton example, a brother and a sister is closely related as they have a common ancestor in the first generation.

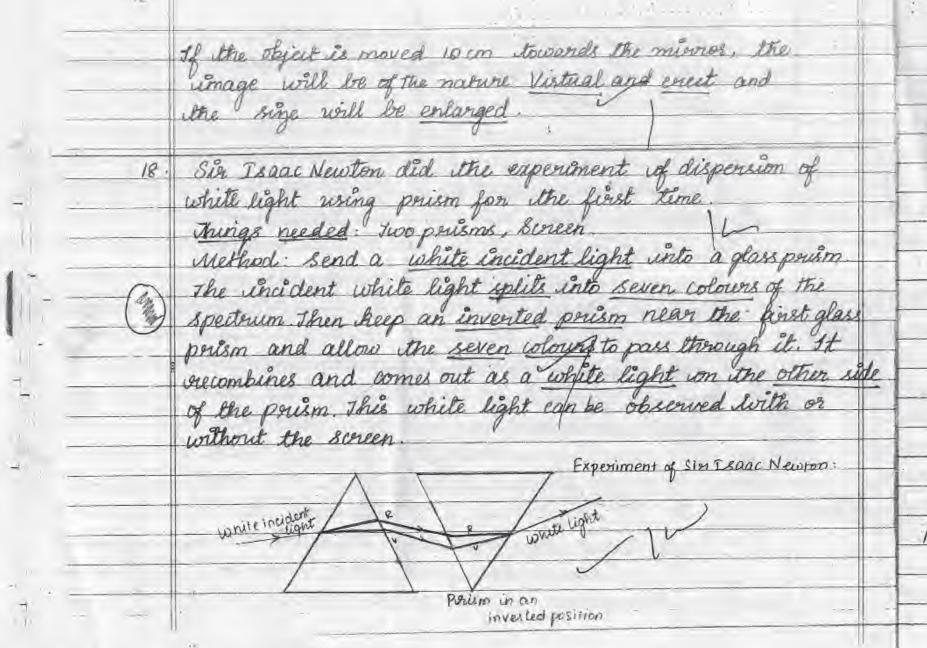
roherass, a brother and a cowin is not that much closely related when the brother and a sister are considered.

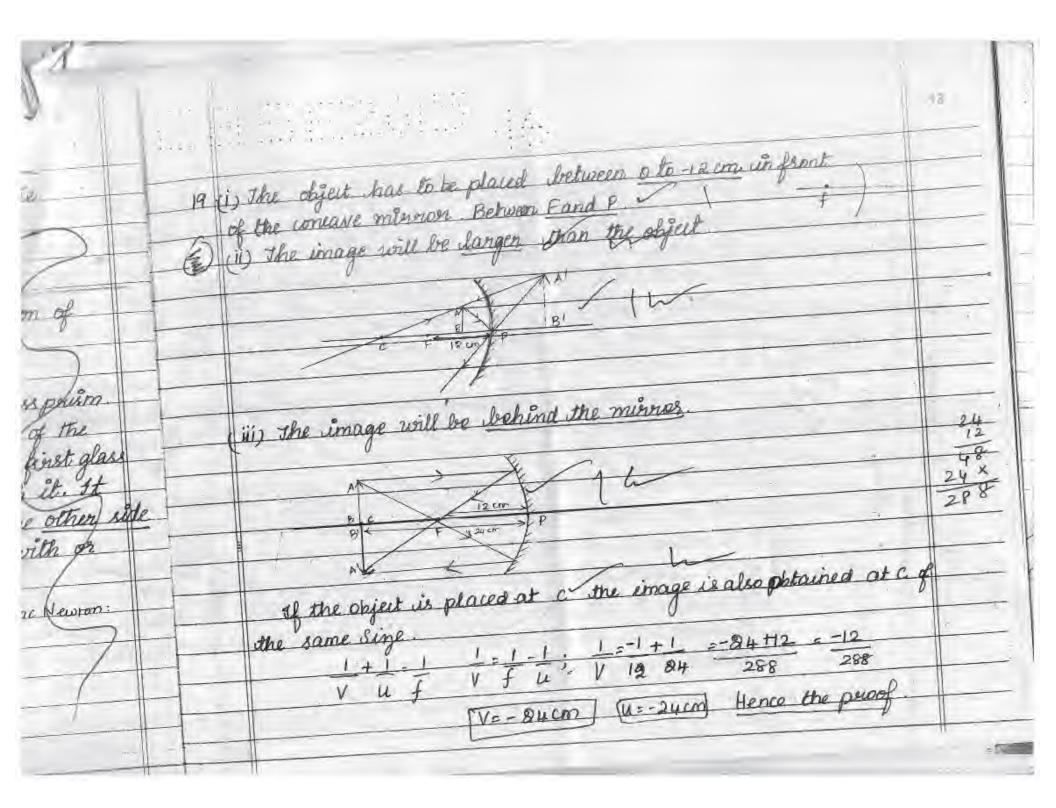
So, classification stells about the organisms from the cell

level till in whether the organisms are vertebrates or inventibrates This comparison neveals that evolution and classification goes hand in hand when we go back along this hierarchy it is found that life Radniums rife rise to originated from inanimate matters in the primitive age. ele praganism Molecular Phylogeny also tells about genetic affinities and ans sequences this helps to organise a group with common ancestor and a being cut Super group with distant anceston. 15 Mendels dihybrid cross helps to know that traits are inherested atsotakis undependently. Various alleles eremain together in hybrid wrion and at the time of progery formation they assort independently Thes was proved by the new mixtures of plants that were ( wrinkled of Yellow) (sound green) RTYY (Round tellow) - FI 9:3:3:1 (Phenotype ratio) The cell

Round Yellow - 9 7
Round green - 3 & Phenotype.
Wrinkled Yellow - 3
Wrinkled green -> 1)
9 combination of Genetype were protured
 New mintures such as sound Yellow wrinkled green etc.
 showed that in case of Ry, R and y are not linked
 and are independently inherited
* fulfill our needs from the resources that were we are very much relied upon by talloring our requirements.  * To make your fitture generation to use it for their material aspirations and to save our exosystem.  * To save biodiversitys to avoid evological invalance.

<i>p</i>					92
	c) Ben	sitive Towards enuhonmen	ital degradation.		
1		ic citizen, aunus of un	rent issues related to	Envisorment.	
	Caru	ing student.			
	17. m	= - &	*		-
_)		-30cm		1 5 m	=-2.
n etc nkkd	120	= 7		15% /0 -	so an
ringia	m	) = -V	1	1	+
		u			45
stainable develop	72	$=+\frac{(-30)}{u}$	<u> </u>		4-
upe one	11	= -30 [u=-15cm] The	phiast distance is 15 and		-
ements.		2	orgen anstrume is 15 cm		
ueten	wir	nos tonmula = 1 + 1 = 1			
ante.		v u f			
tile and	- 1	-1 = -15-30 = #A5	= 1		
ul)	10	15 450 450			
6	11	=-10 cm The focal leng	th 18 10 cm		
ed 2					
	11			1	





14 Evolution the process of change from simple life complex life forms by gradual change. It is generating diversity and shaping the diversity \* It occurs over the course of time and generations Variation, Speciation, Natural Selection; Genetic drift Fossils are the preserved traces of living organisms \* It helps us to find the intermediate forms to know better about the intermediate form preptiles and Aves \* It it tells us about the extinct tossil or their retained body impressions \* It helps to know the evolutionary relationship primitive to complex organisms. eg. Am Rajabaurus etc. according to which it is found

15 21. Placenta is tissue, tisc like structure embedded on the reterine spons to wall for to nowish the embryo growing in the uterus. It is a nutritive tisse that has will on the embryo side and Island spaces on the mothers side to perform for the nourishment of the feetus \* This provides a large amount of space for the transport of Colucose and oxygen from the mother's blood to the feetus. inbetween thethe u mother's blood physeen \* with the support of umbilical word, Placenta plays a major part in maintaining the health of the baby. It is nourished in h the this manner in the mother's womb The compound Pis ethanol compound a & Ethene compound R is Ethane CH3CH2DH conc. - CH2=CH2+HD CH43K) (Compound P) ( compound B.)

Addition (compound R) (compound a) combustion : 2102+3HOD + Heat and hight - C2+16+02-(Compound R) The compounds P, Q, R are respectively. The refraction of light nays when it passes through the atmosphere bend towards the normal and reaches us This atmosphere in phenomena of refraction in the atmosphere is called atmospheric refraction.

(a) Twinkling of Stars:

The starlight on entering the atmosphere undergoes

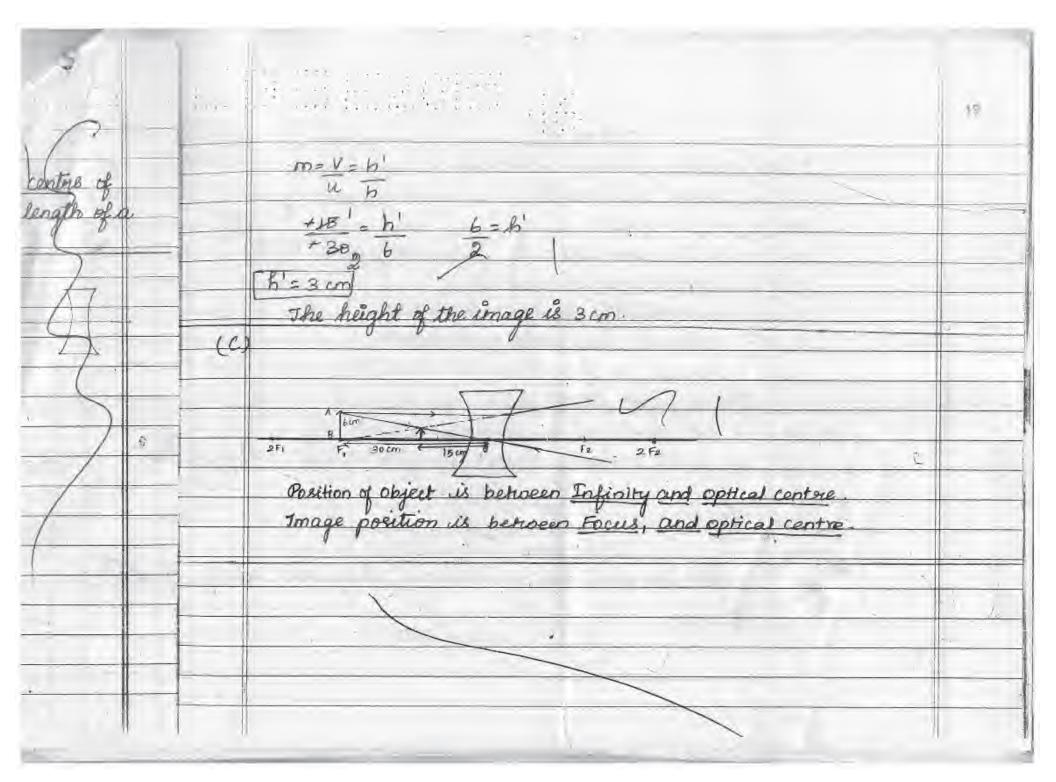
melsoaction completely and continuously the bend towards the

mermal. Since, the atmosphere is not stationary, the

apparant position of Star changes of appears slightly

higher up. The amount of starlight that enters the

the : star flickers and causes the dwinkling effect so, the star appears to be twinkling and this because of the atmospheric refraction. 23 apparent position of stan original posttion of Stor b) Advanced surerise and delayed Surset: Survive and sunset is actually the crossing of poringon by the sun. The advanced survive and delayed survet is due hrough the to atmospheric orefraction. The difference between the artial aches as. survise and apparent survise is two minutes. Likewise the n the atmosphere difference between the actual sunset and apparent sunset is two minutes. The flattening of suns disc is also due to this e undergoes phenomena. SUNFISE (ADVANCED) APPARENT SUNSET ( DELAVED) towards the DESERVER SUN DURING SEIN DURING SUMPISE SUNSET



20		-
	SECTION -B.	1
25.	(d) Radicle, cotyledon, Plumule.	-
- (261	(a) carrot and Radish.	
	(d) /n, (A and IP.	- 6
	(a) /i is more than in but nearly equal to it	-
. 20	(b) inverted and diminished.	
70	a) lens slightly towards the screen.	
	(c) caster oil and sodium hydroxide.	-
		-
- (32	(c) There is no change in the blue litinus paper and the ned	7-
-	litmus paper turns blue.	-
- 33.80	(d) calcium chloride, magnesium chloride.	
	He could probably observe the proturbence called baid.	1
	nucleus of bud	
-	bud >	4
	nucleus of Yeast	4
Am /	After the protuberance comesout they form colony of chain of	
719	Order and from the state of the	
-	Vellas.	=
	ingan of Bolds.	1
-		7
		-

