





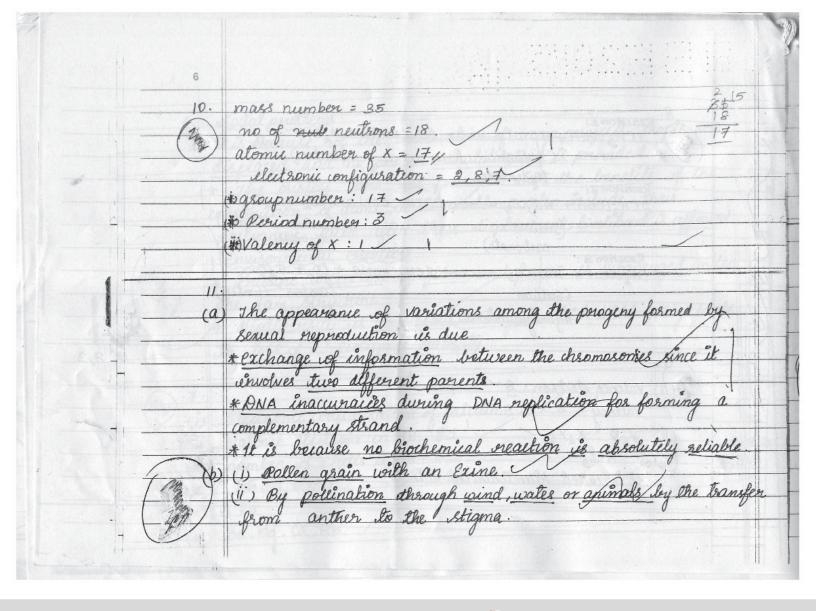
9 x108 = Speed of light in water = 2.25 × 108 m/s -> speed of light in water The four stakeholders are namely; * the people who live in and around the forest by seeking livelihood from forest products etg. i.e., habitants of forest.

* The tonest department who controls the tonest land and area negulating the actions in forest by outsiders * The wild life conservationants and enthusiasts who wants to preserve



Social problems: *It is because of the construction of mega projects people are displaced and no proper nehabilitation is provided The ourtees are not provided with the benefits of the construction of dams. Social phoblems also in grilvances faced after their displacement, the dam structure Electronic configuration of calcium: 2,8,8,2 Valence electrons in Rb: \$1 (vi) Be, Mq, Ca, Rb.







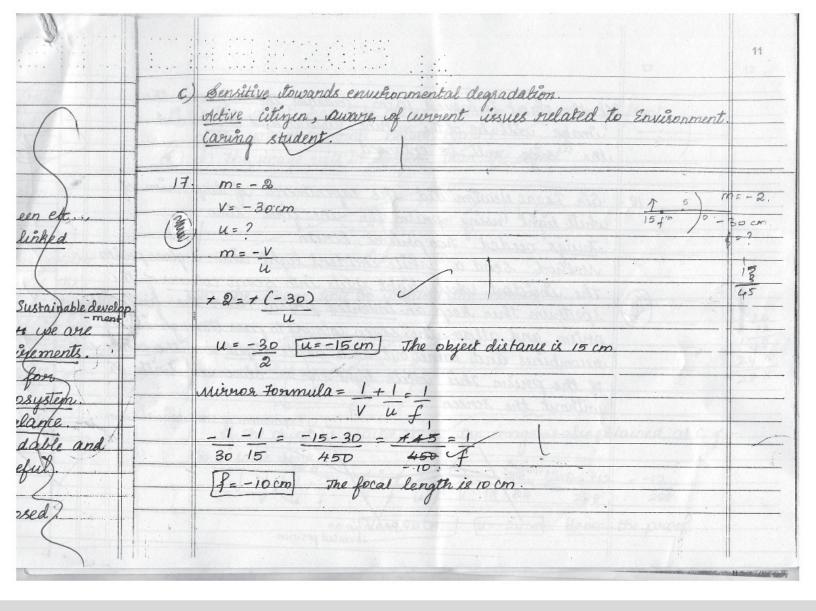
(111) C is the pollen tube that carries the male gamete from (iv) After fertilisation is over, zygote to formed as the res 12. The creation of new individuals from the existing individuals on individual for the species to survive is called reproduction The consistency of the DNA is maintained inorder to organoduce Similar kind of organisms with same wody design for the organism to fit to a particular siche thus, reproduction is Fully differentiated on multicellular organisms has the ability the transfer

he Mydra, oregenatrative cells proliferate and sreproduction as organism will not depend reperoduce. This is an asexual mode of reproduction. This also takes place in Planaria 14. Evolution and classification are interlinked * classification is done according to characteristics among organisms which posses a common ancestor in the first whereas, a brother and a cousin is not that much closely orelated when the brother and a sister are considered So, classification tells about the organisms from the cell



level till in whether the organisms are vertebrates on invertebrates This comparison neveals that evolution and classification goes hard in hand when we go back along this hierichy it is found that ile rue to originated from inanimate matters in the primitive age Molecular Shylogeny also tells about genetic affinities and and sequences this helps to organise a group with common ancestor and a Super group with distant ancestor 15 Mendels dihybrid cross shelps to know that traits are inherited undependently. Various alleles eremain together in hybrid union and at the time of progery formation they assort independently This was proved by the new mixtures of plants that were (wrinkled of Yellow) (sound green) Rryy (Rough Yellow) - FI 9:3:3:1 (Phenotype satio) the cell

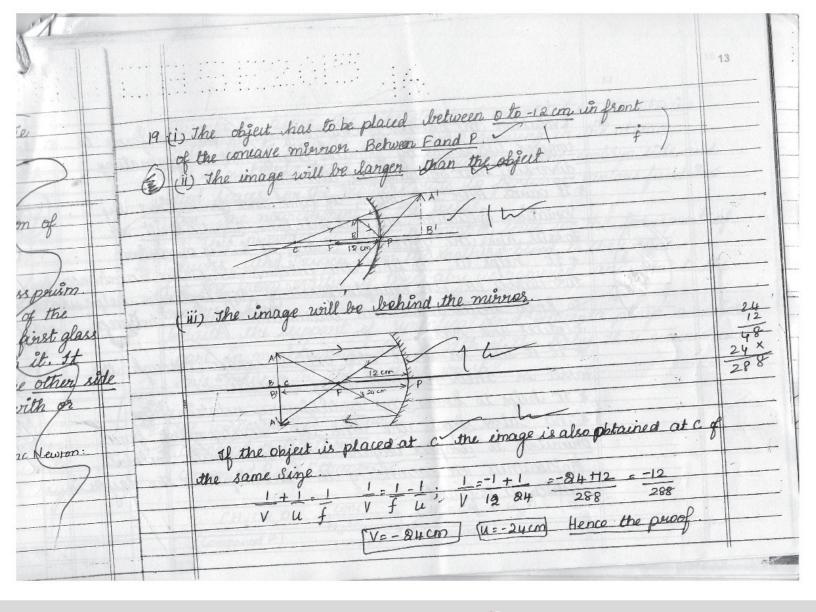
Round Yellow Phenotype Round green Wrinkled Yellow -> Wrinkled areen -9 combination of Grenetype were protioned New mintures such as sound Yellow, wrinkled green etc. showed that in case of Ry, R and y were not linked and are independently inherited 16. a) It is necessary to conserve the environment ton Sustainable develop * fulfill our needs from the resources that were we are very much relied upon by tailoring our requirements * To make our future generation to use it for their material aspirations and to save our exosystem * To save biodiversity to avoid evolagical empalance b) The segregation of waste such as biodegradable and non-brodegeradable wastes for nearling is useful It saves our time and energy The various things can be appropriately disposed.



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If the object is moved 10 cm towards Six Isaac Newton did the experiment of dispersion of while light using prism for the first time Things needed: Two perisms, Ecreen Method: Send a white incident light unto a glass prism The incident while light splits into seven colours of the spectrum then keep an inverted prism rear the first glass prism and allow the seven colours to pass through orecombines and comes out as a white light on the other side of the prism. This white light can be observed with or without the screen Experiment of Sin Isaac Newton: white incident Porison in an inverted position







Evolution the process of change from simple life forms to 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 tossils are the preserved traces of living organisms helps us to find the intermediate to know better about the intermediate * It it tells us about the extinct specie tossil or their retained body imperessions primitive to complex organisms. eg. Ar etc. according to



Addition: Nickel caralyst (compound R) (compound a) combustion : > 2102+3400 Heat and Light. C2+6+02-(compound R) The compounds P, a, R are respectively. 23. 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 Stans: The starlight on entering the atmosphere undergoes reforaction completely and continuously the bend towards the normal. Since, the atmosphere to not stationary, the apparant position of Star changes It appears slightly higher up. The amount of starlight that enters

eye fluctuates so, the : . . star flickers and causes the twinkling effect So, the star appears to be twinkling and this is because of the atmospheric refraction. 2 apparent position of stan original position of Start rane b) Advanced surruse and delayed sunset: Survive and sunset is actually the crossing of horizon by the sun. The advanced survise and delayed survet is due hrough the to almospheric oregnation. The difference between the artual 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 sun's disc is also due to this undergoes phenomena. APPARENT (ADVANCED) APPARENT (DELAYED) SON DURING SUNRISE SUNSET



