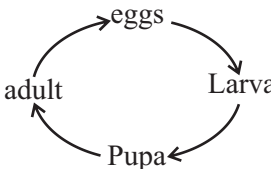


ANSWER PAPER - PART I

01. (1) 02. (2) 03. (3) 04. (3) 05. (4) 06. (2) 07. (3) 08. (2) 09. (1) 10. (1)
 11. (1) 12. (4) 13. (4) 14. (2) 15. (3) 16. (3) 17. (4) 18. (3) 19. (2) 20. (1)

(2 x 20 = 40)

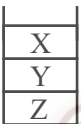
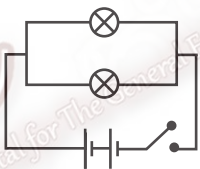
PAPER - II

- 01 (i) Properties of light / using the properties of light in day to day activities (01m.)
 (ii) teacher / text book / internet any two (01m.)
 (iii) less participation of students / less number of students in group less co-operation among students (any 2) (02m.)
 (iv) unity / co-operation (02m.)
 (v) A - cannot see the candle light. B - can see the candle light. (02m.)
 (vi) Light travels in a liner path. (01m.)
 (vii) Regular reflection / Scattered reflection (02m.)
 (viii) In shops / periscope / Kaleidoscope or any 2 uses. (02m.)
 (ix) When light travels from one transparent medium to another transparent medium the change in the direction of the light ray is known as refraction (02m.)
- 02 (i) A - iron nail / B - copper coil / C - cells / D - switch (02m.)
 (ii) electro magnets retain magnetic power until the current / electricity is provided but permanent magnets retain magnetic power for longer period (01m.)
 (iii) increasing the number of turns in the coil / increasing the current (01m.)
 (iv) electro - magnetic crane / Loud speakers / trip switch (01m.)
 (v) a - Rod magnet b - Ball ended magnet c - U magnet (03m.)
 (vi) by heat / dropping or hitting (02m.)
 (vii) for any two uses (01m.)
- 03 (1) (a) Trees show stratification / high rainfall / Trees have large leaves. (01m.)
 (b) Trees are short / Fat canopy / trunks are twisted (01m.)
 (ii) Receive food / wood / help for existance of water cyce maintain the balance of oxygen and carbon dioxide (02m.)
 (iii) bushes / forest / paddy fields (01m.)
 (iv) Do not suck out the blood from the wound by mouth / Dont give king coconut / Fruits / alcohol / Do not ut around the wound. (02m.)
 (v) Scorpion / Tarantula / Centipede / Wasp (02m.)
 (vi) When walking among thick grass, use along stick, use a torch in the dark / Remove the decaying leaves and barks from the garden. (01m.)
 (vii) To maintain the equilibrium of the environment. (01m.)
- 04 (i) (02m.)
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graph TD
 adult --> eggs
 eggs --> Larva
 Larva --> Pupa
 Pupa --> adult

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- (ii) metamorphosis (01m.)  
 (iii) For protection / to decrease the competition (02m.)  
 (iv) Dengue / Malaria / Filaria (01m.)  
 (v) Dengue - Pain in muscles and bones / vomiting is black colour  
 Malaria - Shivering in a definitie time range.  
 Filaria - Swelling in the feet and arms. (02m.)

## ANSWER PAPER

- (vi) bio - raising fish in water bodies who eats larvas of mosquito (01m.) / chemical - spraying chemicals to kill larvas, spraying mosquito repelling oil (01m.)
- (vii) Remove empty tins / coconut shells etc which collect water / Keep the garden clean / add salt, soap liquid to ant traps. ( $\frac{1}{2} \times 2 = 01m.$ )
- 05 (i) Mineral - Homogeneous / have a permanent chemical structure  
Rock - Heterogeneous / Don't have a permanent chemical structure (02m.)
- (ii) Lime stone, Apatite, Iron ore, Mineral sand (02m.)
- (iii) Ball clay / Kaolin / Fire clay (01m.)
- (iv) Troposphere / Stratosphere / Mesosphere / Thermosphere / Exosphere (02m.)
- (v) Human activities like destructing forest / garbage burning, burning fossil fuel.  
Natural phenomenon like wood fires / volcanic eruptions. (02m.)
- (vi) Prevent destruction of forest / Recycling the garbage / Using fossil fuel free of harmful substance. (02m.)
- 06 (i) The mass in grams per cubic meter. (02m.)
- (ii) Hydrometer (01m.) (iii) Z (01m.)
- (iv) X (01m.) (vi) cell / bulb / switch (02m.)
- (v) (02m.)  (vii) (02m.) 
- 07 (ii) Cyclone is spiral winds that rotate around the center point of low pressure are in the atmosphere. (02m.)
- (ii) tropical cyclones (01m.) (iii) In the middle of the sea (01m.)
- (iv) Check whether the tiles or roofing sheets of house are firmly fixed / Remove branches of trees that may dangerous / Maintain the doors and windows in proper condition. (03m.)
- (v) A Lightning cloud B Metal tips  
C Broad copper strip D Earthed metal block (02m.)
- (vi) Do not stay in open areas like pay ground, paddy field etc., / Switch off all the electrical equipments and remove the plugs // Avoid sleeping on floor / Avoid touching metals. (02m.)