Name: Sadaguas Mussur Mode Exam (2023) Sept Batch: 045 General Science and Ability parl II. General Instructions (1) × 1,00 1 1. Give numbering to headings 22: 3 . Do not write lengthy paragraphs. Write (b) medium speech paragraphs with headings lim, and 3. Do not use table for comparison and contrast questions. Ans: 4. Bostind figures/diagographilouvchart Waerers of needed 5. Start new question from fresh page 6. Start new question from fresh page 6. Start new question from fresh page reasoning for better score. B. Mangragentolover schepreitor reterenniques keeping give them more visibility mil al si Julations. 9. Manage time well. Or Wide page oprolers are discourse tous methods Should be reasonable, which the worst c 11. Avoid writing wrong references, 12! Sive more consignage to empressed thanked a c parts of the question incursion and pyrolysis elc. furthermore, these millods are much useful in disposing of the waste without causing any harm to the envisonment. However, Aluse methods are not some and there are some differences among them. Compositing: This poseess is the converting of organic works into textilizers. As a search, it is helpful in more



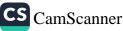
Bompoeting growth in plants. Consequely the envisonment would get vid of wastes and gain beautiful environment of plant Incineration: This process is the burning hazardous motiviales a high dempcent te this stype of process ad that the differil trom Compsiding. Through This process containinants lavourd Output? destroy. bon ethipientesis: This sype of process represents st? a process of tharmal elegertion of the weste in the total absence of airs -that produces recyclable products, including chairs, oil wax and compussible a gabses. . and Although, solid waster is praymond the speicity and spread various ilypes of dease diseases. This type O of waste requires dire need of social attention lifer ralis l'aglante or bis Baron



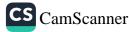
Q2. (C) Ans: The Iridacy is the essential part of body. These are dus leidneys available in human body. The shape of these organs are bean a shaped. They are located just below the sib cage. One on each side of human spid spine. The work of these organe are do ilitico the wastage material in finguid form. Healthy dridneys fifter about a half eyp of blood . every minute, removing wastes and extra water to make Wine. process in Usine formation: The kidneys litter unwanted substances from the blood and produces Usine -10 excrede them. The tioney regulater the water and solt contail and removes useq. The wine is transported to the bladeles along dubes called useties. The bladdes stores the usine until until it is convenien) Flo expel it from the body through the ysethra Detail missing.



Right eidner Uxe-lasa \$3: (9) Ans: A system of winds volating inwords to an arca of low baxometric pressure, with an articlockwise circulation of is egeton called cyclon. A cyclon is a large give moss that I volates shound a strong enter at low Elmosphexic pressure, Courtex clockwise in The mothern Humighave Atministration and clockwise in the southeast to hemisphese These are various Appes of excloses cyclone. But Houseus, Some are destauctive. To pical eyclone: These type of gclone is also known as typhoons or hurrichnes. This type of cyclone is the most



destructive weather phenomena. They are infense civedar storms that originate over warm occons, and have maximum wind speed approximately 119 kilometres per hours and heavy sains Ex. Biparjoy is the best example + olhis dype -Ertratiopical Cyclone: This type of cyclone is also considered as the most destructive one. Extrapropical cyclones have cold air at others ecriter, and derive their energy toom release of potential energy when cold and warm are masses interact. These lypes of cyclones offer occus over land or ocean. Wbich part is most destructive?



Q3: (d) and the and a selection beinghow Aus: These are mainly dwo torms of bonding that an atom can paydicipate in. Covalent bonding involves the sharing of electrons between two or more Jones. Whic bonds Norm when Ano 8 >5 more + ions come dogilha and are sheld regather by charge differences ; Conic bond: This is electrovalend bond, in this type shong attraction of charged jons make another dremier compound. Ponic bond occur between melals, i asig electrons, and nonmelals, gaining electrons Example: (Macl) (CL (Na)



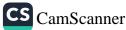
Covelent bond: A covalint bond is dosmed by the equal shaving of electrous from both participating aloms. Ex: H2O (H) 84: 191 Ans: land pollution is des tension as soil contamination, soil pollution or land degradation. This is the major issue in the world and caused by the presmee of kenobiotic chemical or oillux alterration in the natural soil environment It is mornly caused by industrial adjuirty, agricultural chemicals or improper disposal of warle. These are some falloos which ted lead to the exploitation within the Boil. Defocestation: Defocestation is the cit down of -loss and clear land for farming, construction and sillement purposes. Due to this



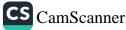
problem, Norros fires, soil lose the its vegetation cover. The exosion process is thus accelerated? Radioastive waste: Due to this waste, Soll lose its glory and do not able do goow smoothly. These wastes thing contaminate the soil cover bodly. Acid rain: Although above couses are ontheopogenie case but this is also indirectly may made ense. This sain for is generated because of climite charge and man humans are with is The main exponent of climat charge. This type of cause is also conforminate the soil cover. raisons with all is highward be being a out in her her will not reall second welling in paints plants in which in prover 6



Section-(2) 26 Identify the sexies: 191 i) 10, 100, 200, 300, 130 But reasoning is missing ii) 3, 7, 23, 95, 479 (C) Nisha is 15 years elder to Romit If Syens ago, Nisha was 3 dimes as old as Romi, Then find the Nishais present age. 501: Dala: present past Romi = N Nisha = M+15 N+15-5= N+10 Eghation: N+10=3(x-5) Explain the steps N+10= BX-15 31-11=-15-10: $2\mu = -25^{-1}$ N= 25 = 12.5 30 present age of Nisher is 12.5+15=27.5



26: (d) i 210 oranges, 252 apples and 294 peuxs equi particel in carlons so that no denite is left. Whil is the biggest possible number of carlon need Ans. Sol: Datai Total number of oxanges = 210 · Total number of apples = 252 Total mumber of peus = 299 Finding the Common factors 210 = 2×3×5×7 252 2×2×3×3×7 294 2× 3×7×7 Common forders = 2x 3x7= 42 Biggers possible number of cartons needed its parts the fourt is 42. . 01: 321: = N-NE. Q7: (b) In a certain code BROTHER is weithen as QDGSNQA. What will be code for SISTER? S-R Aus: 13-A I-H R-Q 5-R 0-N T-S - S - G F- 1 12- D



Where is the reasoning? 1 So, BROTHER = QDGSNQA SISTER = QDSRHR. Q7: (9) Duxing a sale a clerk was putting a new price dag on each item. On one shirt, he accidently varsed the price by 20%. instead of lowering it by 20%. As a readt the second poice on the day was RS 80 100 high. When was the original poice? ALS Bol: Data = price al shift after incrase = 80 Rs 20% incrased. = Equation: 1. = actual change Original price let n is the original price. 20/= 80 N 20 = 800 201 = 8000 n = 8000 200 p n= 400



28: Bd: (9) plem Blow Aus: 1100 W 5 lem Base = 1km ylem i perpendicular = 3/cm Hypolinus -5. N Petha goods dheorom: $(Hyp)^{2} = (B)^{2} + (p)^{2}$ $W^{2} = (1)^{2} + (3)^{2}$ $\kappa^{2} = 1 + 9$ JN2= J10 /m = 3.16 km Man is 3.161cm qway from his dayling point. In which direction?



08:1 0 (C) So Aus. Dala: lo men Total men = 50 " 20 11m Distance 201cm By Time. Days = 40 8d= Men Distance 50 20 km Time 40 ? 70 ··· 20/em $= \frac{M}{Y0} = \frac{20}{20} \times \frac{50}{70}$ China Cartan Jack 12 8 N = 50 40 - 70 N = Yoxsis = 200 = 28.57 days Bo, if To men can construct the soad 11 will date 28 days 28.57 days. 5 10

