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		3
	Answer: 3	
9	X - Ethanol [C2H3OH] Y - Ethene [C2H4] [7] Z - Hydrogen [H,] 27  C3H2OH Gone H, Soy, C2H4 + H2O	
	(X) 443K (Y) L	
0	Sulphuric acid (conc. 17,504) water from fagent and removes a molecule of water from fethanol to give unsaturated compound ethere.  Answer: 4	
0	Gustatory receptor present in tongue to detect taste. Offactory receptor present in nove to exetect smell.  Dendrite - Gyton/Cell body - Anon - End pt of new	wan

Answer: 5 Conven mirrox always form erect and diminished pacof in front of MUUCOL Christian agreement to the state of the stat The second secon virtual & excect ing: formed between pole d focus of deonlier mirror 

**	
B	Auwer: 6
	Thermal decomposition reaction
(8)	2 fe SO4(s) - 4 fe 203(s) + SO2(g) + SO3(g)  (green (III) onide (sulphux  (coloured crystals) brown coloured) dionide)
	(a sufforating
=)	Green coloured crystals change to brown coloured by Do along with gases like SO2 & SO3.
	Photo decomposition reaction
	Ag Cl (s) Sunlight, Ag (S) + Cl <sub>2</sub> (g) (white coloured) (Gray coloured)

Even if the zine wetal reacts with a solution of strong acid, hydrogen gas is produced levelued [Ed Zn+2HCe - Zhce, 4 Hz igusuer & 8 Carbon compounds are covalently bonded and hence the bond is formed by shaving of 1 electrous ketween two or more combining atoms Due to this, they don't form any ions or electrons charged particles within the solution mor they give free As we know, conduction of electricity requires flow of fuellectrons in solids & ions in flinds, they don't conduct electricity. which by the market to prove the first to be the take to Million A words Comment Jan Marine 2 - Cyclopropane Structure

Name of the structure:Cyclopropane No. of single kouds: - '9' stigle constent bouds 3) Auswer: 9 (a) Thyroid gland :- Thyronine hormone Illigramine hormone' belos in metabolism of carbolish fats and proteins and is thus responsible for best balanced body growth (b) tituitary gland: - Growth homone It regulates growth and development of kedy However, its reduced secretion causes divarfisite! and encer rechetion causes gigantism . State out

(c) Panorers - Insulin Insulin regulates the blood sugar level & brings back the encess sugar level to normal. minimum, built made and the first again tall IN THE THE PROPERTY OF THE PARTY OF THE PART guewer: 10 return to a company to the contract of the contract of the contract of Asenual mode of reproduction is uniparental l thus, doesn't involve any pusion of gametes e hence, fertilization. Genual mode of reproduction is biparental & thus involves posion of both male & feduale gameter. ignorg the two, senually reproducing species have a better chance of survival. Ille to because reproduction in such species require contributions equal genetic material from both the parents This results in various combinations for genes.

Hence, the process of creation of variations is increased manifold of compared to assurably reproducing enganism nariations for long time, may lead to evolution Not only this, we also Throw that variations are helpful for continuation of species in case the niche changes drastically due to factors not under our control like global warning, meteorite shite etc. Asenual reproduction implues slight praviations & thus, will not be very beneficial to produce a variation adaptable to drastically changed m 

S) Answer: 11 Kowen of a lens is defined as the receprocal of its focal lengen when expressed in metres. It tells us sabout its (lens') converging of any other as well. for a beam of parallel rays or

SI unit of power is Dioptre (D) 1 + (in metres) (i) Focal length of lens (f) = As we know,  $\frac{1}{2} = \frac{1}{2} = \frac{5}{2} = \frac{+2}{2}$ The lens is conven tens which is a lens (: fl P are tre) & (11) Focal length of lens (1) = -20 cm = -20 -1 m

of we know, P= 1 leus: Concare leus which is a diverging leus (: fl Pare-ve) Auswer: 12 (3) Let R be the resistor of 9-0

For parallel combination, Resistance of total combination (P) Rs = R+R2+R3---- [Law of combination of Rs = RI+R = 9+8=18-0 the second by an experience of the second se

 $\frac{1}{R_{p}} = \frac{1}{R_{1}} + \frac{1}{R_{2}}$ L'am of combination of resistous in parallel J  $\frac{1}{Rp} = \frac{1}{R_S} + \frac{1}{R_S} = \frac{1+2}{18} = \frac{3}{18} = \frac{2}{18}$ Rp = 18 6 0 13 Answer: 13 (a) Resistance of a conductor depends upon following (ii) It is directly proportional to length of conductor [RX]

(ii) It in inversely proportional to area of cross section

of conductors (RX + 7) (iii) It idepends upon nature of material of conductor (iv) It depends upon temperature of conductor when it is being used

(b) Metals are good conductors of electricity because of their lower resistivity. Metals have a resistivity of the order of 10 to 10-6 -2 m. Hence, they provide less opposition to the flow of electric charges through them & hence have higher conductivity. Glass is a bad conductor of electricity as it ! has entremely high residinty and hence praides igreat opposition to flow of free electrons felectric thanges. Hence it is included in the group of insulators having resistivity of order of 10th tolo an (c) Alloys are used in electrical heating devices as: (i) They have brigher resistivity than their · constituent metals & there alot of heat energy is dissipated as charges flow through them. (11) They don't get anidised or knownt at even high temperatures

réfusiver: 14 a liftor managing garbage, first we must segregate it unto biodlegrable & non biodegradable substances Biodegradable substances like negetable peels, domesting waste, animal enceta, now dung etc. must be converted into manure, This boot only helps in enriched growth of plants but also sprevents duny of it in open, production of four smell etc. (ii) for non-bidegradable substances, me must further signegate as recyclable & non-recyclable. All recyclable metals, plastic, glass must be sent to differ factories which after proper relaining, process them in new products. For rest over garbage, practices like filling it in landfills which can be converted into playground for diedren or incineration at places with people management for it can be done.

(b) As an individual, a (i) We must follow the policy of reduce! We should try to switch of lights when unnecessary for som resources & for garbage, try using same sheet of blank paper not used from other side, try making registers with utilising all the pages to reduce our demand for hough upids, reducing usage of plastic disposable was. (ii) We milet follow the policy of recese! Using jam bottles, will carton, packaging bones, letchup bottles is a good way to use resources already once c) Jeacher has instilled the values of environmental concern', eco friendliness', wise use of resources! the same of the sa The same of the control of the second of the The same to the same of the sa

Qajani

Auswer: 15 the believed and I will be be the state of the second of the second of Dam is a structure made to obstruct the flow river for creating ian impoundment or diverting Dans are built for storage of water for electric or flood etc. Troblems to be addressed to maintain peace among (i) They must be provided with full rehabiliation fascilities. The oustees of Towa Dam Taxe still fighting for fascilities promised to them in 1970.

again creating conditions for them. They should also be provided with equal land area that has been taken from them to construct artam with al

of developmental approach.

(iii)	Reduction to more
	Reduction toy a more reactive metal or carbon :- 1
	$Znolg+C \longrightarrow Zn+Co$
- 40	This will happen as Carpon was higher att x
	Znole) + C - Zn + Co This will happen as Carbon has higher affinity for zon onygen than zinc.
( iv)	Finally the obtained metal
	Finally, the obtained metal can be refined to by electrolysis of their salt solution.
(b)	Copper glance [ Cu S] is copper's supplied one.  It is first roasted & then reduced by the remaining Cu S in tank.
	It is first roasted & then reduced by the
	remaining Cus in tank.
1	20 00 10 10
	10 2 Sto) +30,9 3 2 Cu als) + 280, (g)
	Copper (I) [Copper I]
	2 Cu Slo) +30, (g) 2 Cu als) + 280 (g) [Copper (I) [Copper (I)] Rulphide] Onide
	The state of the s

Auswer # 17

Advantage: He for the first time grouped metals on the basis of their similar chemical properties. He could find 3 Dobertmen's Triad which had a special characteristic!

when arranged in increasing atomic masses, the atomic mass of middle element was equal to average of atomic wases of other two. This

No - 2/3 4

K - 3911 U

- This encouraged others to classify elements on baseis of chemical properties and atomic homes.

Disadvantage He would only place 9 such elements in 3 triads & thus, wasn't efficient for a study of them.

(ii) Newland's haw of octaves - Classification of Newland Advantage He could place so elements known at that line in his classification & also for first time, studied periodic recurrence of properties. In this classification, 2 properties of every elged element resembled to that of THE RESERVE OF THE PARTY OF THE Disadvanty His system northed only for lighter elements & Also, he placed some elements like to I Nil even in same slot. (111) Mendeleer's classification Advantage He arranged elements on basis of increasing atomic masses & similar formulae for hydrides & onides. He also left gaps in his tables which procuraged for discovery of new elements like the boron, the aluminumete the contract of the contract o

Disadvantage He placed some elements with more atomic man proor to ones having less atomic wars for similarity of properties but couldn't justify it.

En: He placed Te' (127. Bu) before I' (128.9 u).

(c) Modern Periodic Law states that "properties of elements are periodic function of their rataric no."

) Answer: 18

Exection is the biological process of removal of harmful nitrogenous wastes like web, which are produced as by product of themical reactions taking moide over body.

(b) Nephron' is the basic feltration unit present in hidney. from the same of the land the same of the STATE OF THE STATE OF THE STATE OF LEFT KIDNEY AN ARREST TO THE PROPERTY OF A PERSON AND A ZCFT RIGHT UPETER E and the second report and the second - HUURINARY BLAGAGE Went to the state of the state EXCRETORY SYSTEM IN HUMANS the the last car by the first and the first car that the the state of the space of many into space of the state of develope a third finish of which a course of any

Musiver: 19 (a)(i) Ovary has following functions :-. It releases matured egg ( finate genn cett) suce every month of this, is responsible for produce à release ( orgenisis à anelation) of oven · It secretes sestrogen à progesterone. Centrogen controls secondary senual characteristics in purales at time of publishy I also promotes release l maturation of egg (ii). Oriduct / Fallopian tube carries the released egg to the aterus. · Otheret is also the site of fertilization (ii) Oterus in a bag tite structure where ember is developed & implanted It helps the emburge to grow into facture & also, develops a thick bining of blood versels every waith Its reptimic contraction thelps the baby to come out from mother's body (nomb).

(b) Placenta is a cliec stoped tissue embed ded in uterine wall once implantation of embeyo takes place. It has villi on the embeyo's side & blood spaces on mother's side.

- It helps in nourishment of child justide mother's would. It also helps in enchange of mitruits, onegen & waste products (released by embeyo) between mother's & embayo's blood & thus, is responsible for mothered of embays.

Auswer: 20 (a) (i) (ornea is a thin transparent layer (membrane) on the outer buldge of eye. At come a's outer surface, most of the Refraction of light entering eye takes place (11) Iris to a thick, dort, muscular diaphragm which controls the size of pupil by its contraction & relanation of hence controls the amount of light entering the eye (iii) Crystalline leus is a fibrous jelly like material which provides fiver adjustment for focal length so that mages for objects a can be formed on return When it becomes their, focat length museuses helpful to view far of objects & when becomes thick, help do new nearby objects

(iv) Ciliary nuscles help in changing the shape of eye lens by their contraction & retaination, helphu in changing curvature of eye tens & hence, its power.

When they contract, eye lons becomes thich & when they relan, it becames thin.

b) Sun is near the horizon early morning. Thus, the sun rays have to pass through thicker layers of atmosphere & name to travel larger distance before reaching observer's eyes. Thus, most of the lightnays of shorter wavelength like violet, blue etc.

To re scattered by the smaller particles of hence, only reddish light rays reach our eyes.

On Moon, an astronaut wen't see such phenomenon as their is no atwosphere & their no scattering particles for light to be scattered. Hence, it will be all don't on mon & reddish appearance of sun nou't be possible.

Auswer : 21 Floring's heft Hand Rule states that if we stretch fore priger, middle friger & thumb of non left hand mutually perfecticular to each other, then such that but forefriger gives direction of magnetic field, middle finger gives the direction of scurrent; then our thumb will give the direction of force enquienced by conductor. Principle d'electric motor:-Obsen à conductor is placed inside à magnétic field, it engineeres a force due to the interaction If I magnetic fields - one of conductor carrying current & the already enisting magnetic field

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Fictitious Roll No. (To be entered by Board) 14725123 अपना अनुक्रमाँक इस उत्तर-पुरितका पर न लिखें (अतिरिक्त उत्तर-पुस्तिका (ऑ) की संख्या Please do not write your Roll Number on this Answer-Book Supplementary Answer-Book(s) No. ........ Auswer: 23 - Basoy (s) + QNace Observation - white coloured precipitate is formed Auswer: 24 Take out teet a leaf peel from verstrat side of leaf blace it in petridish after cutting its preses (111) Add some watte & saffranin Tota (stain) on petridiale (iv) After some time, using brush, take out the peeld flace on the slide vowing blotting pages to drain ences stain to prevent air bubble. (arefully place a

Anower 25 Amocka reproduces by binary fission top to send the contract Karyotthesis aylohinesis 1, (50) Daughteramorba The state of the s And the second of the second o provide sugar rates A La recommendada de la companya della companya della



