

unique function of selective permeability. They function 6 as reservior of energy and significant part of hormones as well. 6. Conservation of energy The mechanism of conservation of emergy is crucial for sustainability of environment, climate change and energy security. The adoption of megares for conservation of energy are heneficial for planet earth. some of the key measures for energy conservation are entisted below: Awarness compaigns and education Organize awareness compaigns de educate public regarding significance of energy conservation. Assangement of training programs and encouraging organization to promote sustamable measures of energy usage will help in energy conservation. 2 Adoption of Renewable energy resources The use of renewable resources that are reusable, replenishable, cost effective will help in conservation of environment as well as energy,

these resources have no danger of depletion or getting espised and helps as reduce greenhouse gases emissions - Hoevever, use of fossil feals have risks of depletion and envisonmental degradation Solar evergy Renewable wind energy energy resources Greathermal energy Hydropower Ocean energy 3 Enfance energy efficiency Energy conservation can be increased by banning old and heavy engines, shifting from incomdescent bulbs to LED lights, upgradationald machinery in industrial sector and adoption of some behavioural changes. The Encourage public transportation, prevent frequent use of private ransport, reduce wastage of energy such as turning off bulbs and appliances when not in use can greatly help in energy consesuation. Another measure in contemporary time is use of electric vehicles (Eve) that is benegliabled beneglial for both energy and envisonment.

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may prevent or delay som (1) Energy consecutation policies and their implementation should take measures

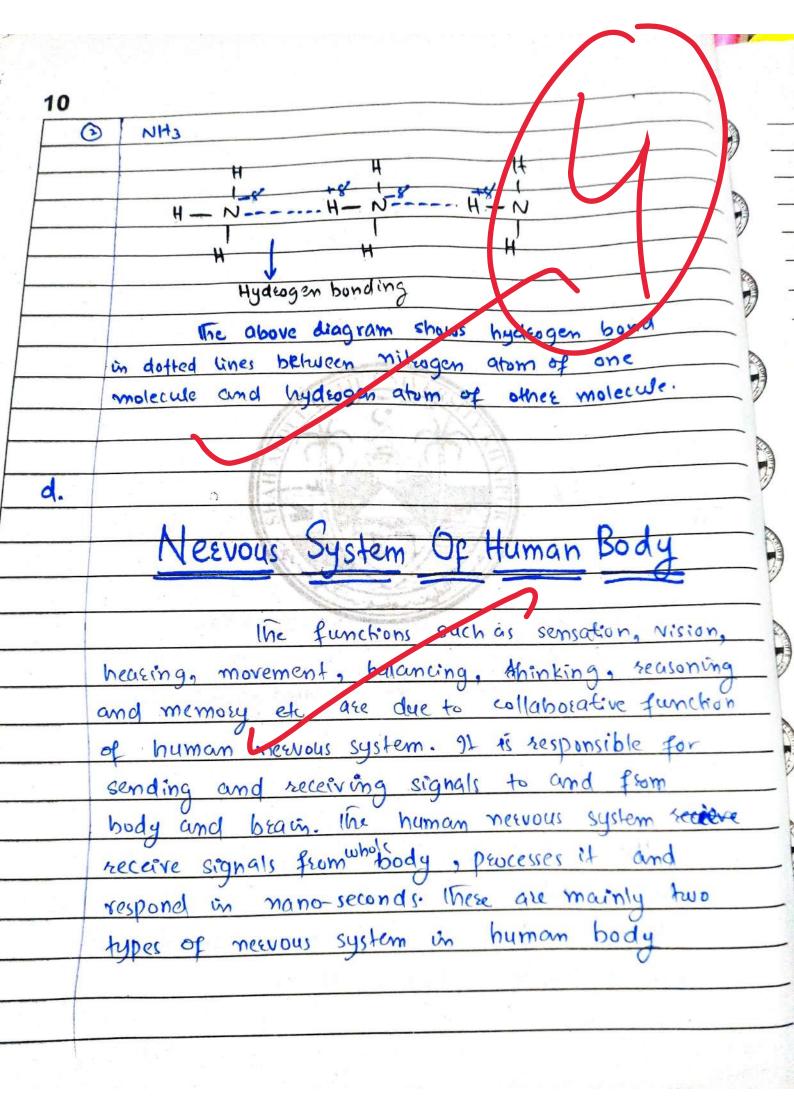
The government should take measures such as adoption of green incentives It should such as adoption of somewable provide subsidier for namely of somewable subside subsidier pamels 94 should offices

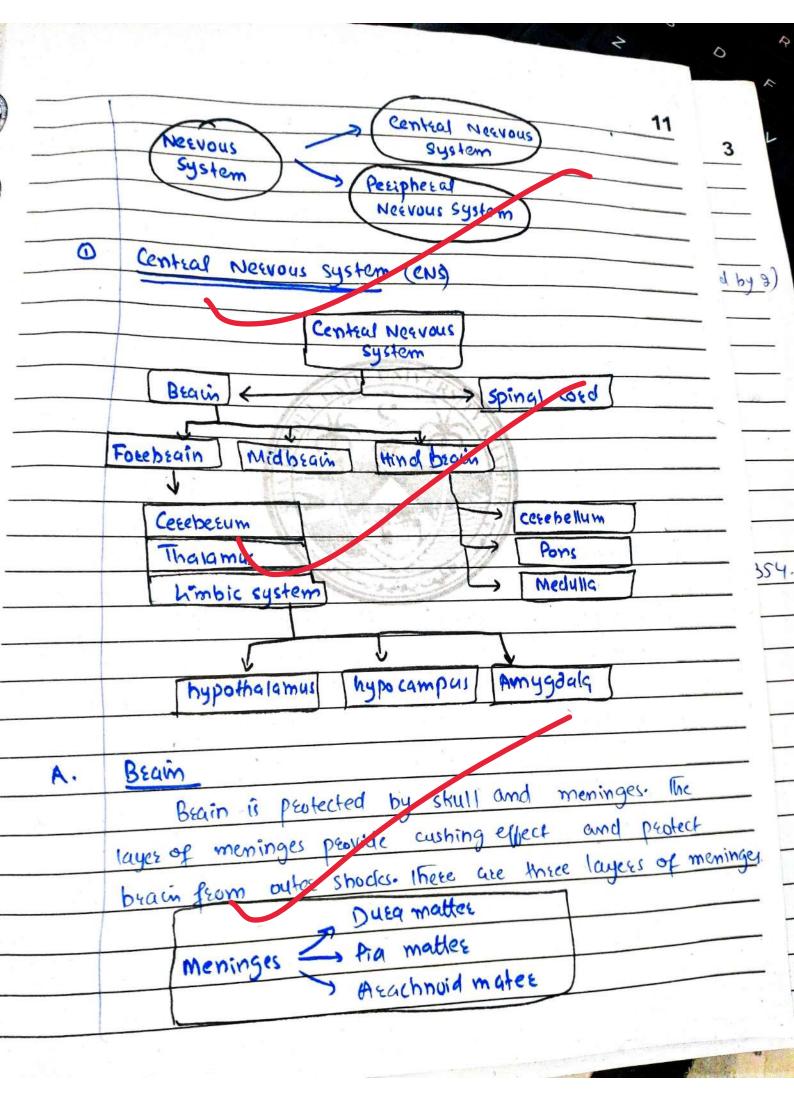
Sources such as solar pamels 94 should offices sources such as adopting emergy-efficient appliances, Another significant measure is Net metering. 94 is use of excess energy generated by kendwable sources other than required. It allows consumer to sell that excess amount of energy and conserve this amount Benefits Of energy conservation and its sustainable use The sustainable energy is a form of energy that meet today's demands of energy. Overpopulation and uncontrolled burning of fossil feels have produced Esk of depletion- Instead transition towards genewable resources of great heregit. It should be widely enrouraged as it doesn't cause haven to the envisonment it is cost-effective re-usable, and there is no risk of its depletion. However, world has started shifting towards sustainable energy and many country's are taking steps to make use of alternative energy resources to meet increasing demand of energy while being envisonment-friendly.

C. 3 Hydrogen Bonding Hydrogen bunding is a interaction of hydrogen atom with othe electronegative such as oxygen, Nitrogen and flourise. 94 formation of bond from one molecule to another molecule. The positive pole of hydrogen atom of one molecule attracts negative pole of electronegative element of another molecule. Examples 0 420 54. > Hydrogen Bond The above diagram illustrate Hydrogen-bonding between water molecules (H20) as force of ottraction between negative end of oxygen atom and positive and of hytrogen atom.

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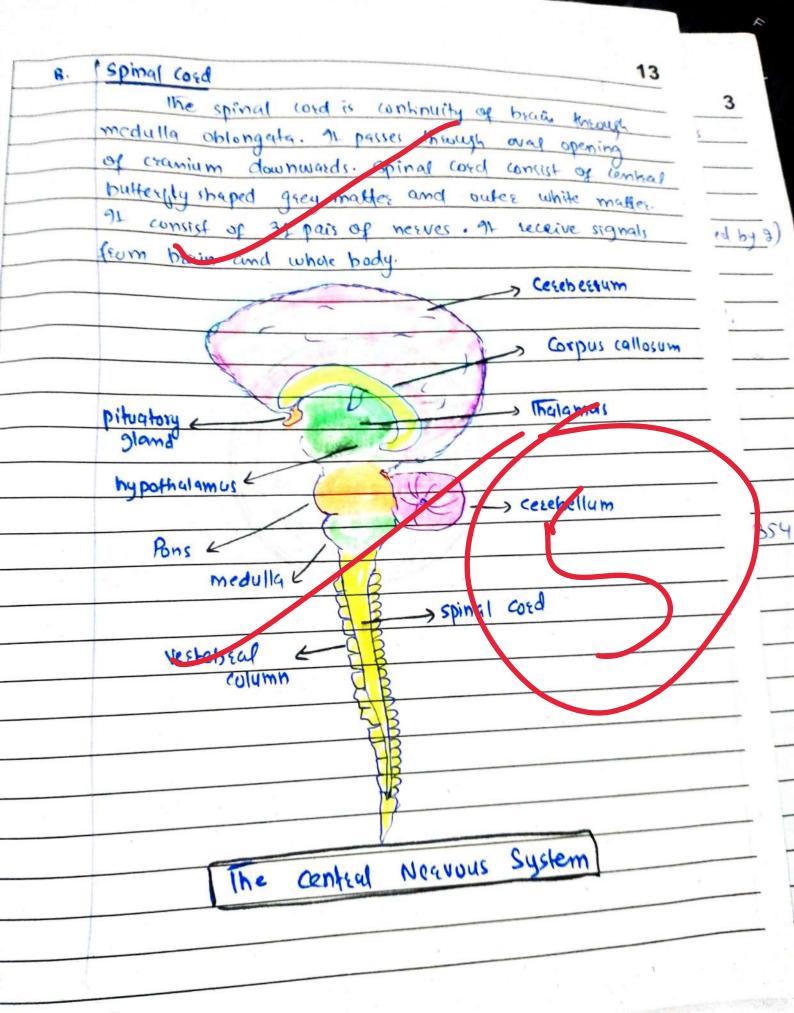
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These are mainly three parts of brain. 1 Fosebeain It is divided into cereberum, thalamus and limbe system. Cesebesum is concerned with anatypical thinking reasoning ability and intelligence ig receive sensory information, processes it and store this information for future memory. The function of thalamys is to control sensory and visual information. Limbic system manages various activities of beain such as long-lesm and short-term memory, sensation of pleasure, punishment, sexual arousal and control of body temporature, hunger and menstrual cycle etc. Midbeam 94 connects forebrain with hindbrain. It contains relay centre for auditory information and control reflex movement of eyes. Wi) Hind brain It consist of following stactures; Pons; controls transition between skep and wakening. Medulla, controls breathing, respisation and heart heat. Cerebellum; concerned with coordinating movements, balance and position of body.



Sodium Erythorbate, Pine Bark Bark Bark Good Extract, and food Seed Extract Acid and food Ascorbic Ascorbic Preservation. yent or delay some types

(3)	Peripheral Nervous system
*	9+ consist of nerves that branch out ofrom
	begin and spinal coed. These nerves form communical
	between the CNS and body pasts. It is fisher
	sub-divided into somatic neevous system and
	autonomic, mervous system
-	1/3/miles of the second
	156-21-150-2-151
	TELES AND THE PROPERTY OF THE
8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Q5.	P	15
	Teokasyotic Cell	s Eukaryotic cell
0	Peaker	Eukaryotic cells may be unicellular multicellular
٥	It contains circular DNA within cytopkim	of contains DNA bounded within nuclear membrane.
(3)	Membrane bounded :-	Membranc bounded organelles are present such as endoplasmic
Ŵ	Replication & faster	reficultion is slower and Organized
(§)	Ribosomes are smaller	Ribocomes are larger in size
6	One single loop of	more than one chromosomes
15	DNA is present within cytoplasm	within nucleus.
(F)	Nucleus à absent ronly nucloid region à present	Nucleus & present sussounded by double-membrane.
8	Examples include bacteria, fungi	Examples include, animals, pl. fungi, alegae, algae.
	pacicas	Suld

or delay su

C. global Information System (GIS) Global information system is a complex framework used for collecting, managing, analyzing, covednating and voializing spatial and geographic date. It uses descriptive information and combine it with location data to better understand patterns, relationships and trends access various fields. components of GIS Husdwase GIS People Software Method The geographic information system integrates location data with descriptive information to provide insights into patterns relationship and trends across range of fields.

Features of cits 17 Data Integration Visualization and mapping ed by a) Spatial Analysis Interactivity Functions of GIS 9+ includes data collection and input process of digitizing maps, importing caps, and satellite imagery. Then organization of date, its analysis.

After detailed analysis and integration, there 354. is creation of maps, 30 models for communication. These framworks provide information for before decision making in urban planning, disaster response and resource management. In addition to this, it is also beneficial for protecting Diodiversity. infrastructure development, precision farming, traffiz analysis and supply chain. management. Hence ois à fransformative technology that empowers industries to understand and solve. Complex spatial Challenger imaking it exential tool for sustainable development and decision making.

20
Causes of Global warming
(Corrections of the Corporations)
(3) Enhanced green house effect (GHE)
3 Rapid usbanization
(4) population explusion
3 Depose takon at massive level
(6) weapongues and warpare
Excessive burning of fossil fuel
1 Depletion of ozone layer (03)
Kyoto Protocol
17 (D) (SE (D) (A)
Due to climate change and global warming, the
international organization, united makes framework
Conventor on clamate change (house)
convention on climate change (unface) signed an
agreement - 27 was a step towards mitigation of
greenhouse gares. Many nations signed kyoto protol and it was
enjorced on 16-Feb-2005. The aim was to reduce
emission of greenhouse gases, teansition from non-
renewable to renewable resources and reduce dependency
on fossil fuels.
However, kyoto protocol has not be being
able to achieve its objectives espectively due
to many reasons. Non-compliance by many hations,
and controversial negotiations between developed
and and developing countries and withdrawl of
canada were some of the Tactors for Failuse. It sequires
compliance and pragmatic policies to espectively achieve the aims of tryoto protocol.

our body

Above given diagram shows some of the natural antioxidants. The service of these antioxidants are cutousful fruits and vegetables such as caret, papaya, mango, peanes, pumpkin, aparcot, broccoli, cauliflaux, tomatoes, spinach, milk, butler etc.

Limitations of use of anti-oxidants

Anti-oxidants can also be used in supplement forms. But its usage have certain limitations. Such as proper who smoke have high changes of lung cancer. When they was take anti-oxidant supplements it increases rish of lung cancer. The only way to complete their body need of anti-oxidants is use consume lots of fruits, vegefables, and muts.

3

24	
-	y= 2+Z
	y= 2+5 y= 7
	Using equation @ put value of "y" and "" to find
	value of "X"
	3(ty+z=15)
	X+7+S=15
¥	N= 1S-S-7
	N= 3
	Hence, the three digit number 1 375
d.	W. O. San State Conference Confer
Ú	13, 24, 46, 90, 178,
	To find the missing number, we would find
	the pattern between given numbers.
	the procedure of the state of
+	Initally find the driver a technique terms
+	Initially, find the difference between given terms.
	91, 10
	04-13- 11
	46-24= 23
	34-13=11 $46-34=33$ $90-46=44$ $179-40=88$
	179-90= 08

	The differences between consequetive by numbers
	are 11, 99, 44, 88 They follow a B pattern
1,	where each term doubles the previous one.
-	11, 99, 44, 83. (each eartern multiplied by 3)
	Hence, to find the missing number, the
	targe last difference is multiplied by two as well.
-	
	371 = 6x63
	To To 1
	To Find next team, add the difference with
	last number.
	178 + 176 = 354
	So, the next term in the sequence is 354.
	The complete sequence is:
	13, 24, 46, 96, 178, 354.
7	
(ii)	5,6,9,14,31,
-	To analyze pattern of given terms, lets find
	différences between consequetive numbers
	6-S = 1
	$9-6 = 3^{\circ}$
	14-9=6
	21-14=7

ip bod men ratar

0	
	40× (4+6+8) = weight of total przzq
	40 x(18) = 720g
	Hence, weight of total prizza is 720g.
	Now Perce of pizza is calculated. For this suppose
	pice of one slice for all sizes is 30 URs. = 80 Rs
	To find price of whole pizza we will multiply
	prize of one the with total number of slices.
	= 80 (6+8) = 80 (6+8)
	= 80(14)
	prize for medium and large = 1120 Rs.
	Disser.
	price of whole pizza is calculated by adding
	Prize of small, large and medium pizza,
	Total prize = 300+1100=1440Ps.
	Therefore, prize for total preza= 1440 R.

7 C. diameter of a circle= 6cm Circumperence of circle=? Asea of circle =? Formula for ascumpesence of asult 2718 First find the value of radium Radius - Diames = 6 = 3cm Put the value of "radius" in circumptionce formuls arcumperence = 2TTr = 6x3.14 = 13,84cm So, the circumperence of circle is 18.34cm To Find Area of acce. A= Tro A = 3.14 (3 28,26 cm Hence, Asea of circle is 198.96cm

(0)	
0	width of a rectangular room = 60% of length
	length of classroom = 15ft
	Room's dimensions =?
	As the width is 60% of length.
-	width = 60 x length.
	(00
	width= 0.6xlength
	Putting the value of length,
	width= 0.6x 15
	width= 9 th
	Final dimensions:
1,1	length = 15ft
	width = 9Ft
	So, the dimensions of room are 15 ft by 9ft
J .	
	Veeny ran 48ft east then turned and
	ran 20ft morth to reach water Station.
	N
	2) 20ft MC >B
	5
	dog park 48ft

	9
	If she run straight the distance can be
	calculated by using Pythagorus theorem.
	$Hyp^{2} = Perp^{2} + B^{2}$ $2^{2} = (20)^{2} + (48)^{2}$
	12 (20) + (48)
	1-30ft
	1-504+
	It Veeng som straight to the water station,
	She would have fun Soft
C,	average marks of 40 students = 52-15
	the marks of one student = 49 instead of 85
	actual average marks of class=?
	adday coverge many of alass =1
	anness Tolo a marki
	no: of students
	Total marks = averagex no: of students
	Total marks = 52-15 x 40
	= 2086
	The total masks are 2086 to correct the essor
-	error= 85 49= 36,
	extor= or (1=)
	the one student is given 36 less mady
	Su total marks = 2086 + 36.
	correct marks = 2192
	Control in the

10	Next Here and
	By with the use of
	By using correct total marks, correct average
	of whole class is calculated
	correct average = Total marks Total Statents
	Correct average = 2102
	arrect auguste= 53.05
	The correct average marks of class are \$3.05
	The state of the s
d.	8 no: of people who like veg przeg = 37
	no: of people liking chicken przza=25
	meither liked = 3 peoples
-	
	Probability of liking Unicken przeg=?
	The state of the s
	the total number of people are = 37+95+3
	= 65
	The probability to like chicken przeg = Number of poople who
	whe chicken piztax
-	
	= 325 × 100 Total people
	65
	- S - 0,204 ×100 - 20 4.1
+	= 5 = 0,384 ×100 = 38.44
A	Likes whicken pirra is equal to 38-4%.
	likes wicken pirra a equal + 29.4.
	2001/