"ART-I" "SECTION-I"	
ART-4	Comment of the
Wanted the same of	
"SECTION-I"	
(Question - 5)	
Part (a)	
Eukaryotic and prokaryotic cells	
are the two main categories of	et alle in revenue an
cells that make up all living organisms.	treinment single
There differences are mentioned below:	N. C. Complete States
Prokaryotic Cells:	
* They do not have a true Nucleus.	
* DNA is located in a region called	
nucleoid, which is not enclosed by a membrane	
# 9t is smaller in size (0.1-5 micrometers)	
A St contains a single, circular DNA	
molecule.	
* DNA is not associated with his tone	
proteins.	
* It lacks membione bounded organelles	-
* It has smaller ribosomes.	New Season of Se
* It divides through binary fission	and the same and the same
* It has a rudimentary cytoskeletin	
* It has a rudimentary cytoskeleta.  * It has rigid cell wall made of	NATURAL PROPERTY.
peptidogoycan.	majaphine ly ignily

Eukaryotic Cells:	
* They have a true membrane-bounded	
Mucleus	-
* Genetic material is stored in nucleus	
* It is larger in size (10 too micrometers)	_
* DNA is linear and organized into	****
chromosomes.	
A ONA is mapped around histone proteins	
to form mromatin	anne a
* It contains membrane-bounded	-
organelles	-
* It has larger ribosomes	-
# 9t divides through mitosis and meiosis.	
A 9t has a well-developed cytoskeleton.	
A Plants and Jungi have cellwalls while	_
animal cell larks cell wall.	_
10	-/
	-
11 - 17	-
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The state of the s	
	(Part-b)
	Gilobal Warming:
	As per IPCC. An average
	and gradual change in the
	temperature of the earth is called
	global warming." It is instigated
	by the human activities and is
	a great threat.
	Background of global Warming:
	Industrial and Agricultural
	revolutions have contributed tremendously
	towards the social, economic, political,
	scientific, and cultural development of
	the world but due to these revolutions
	intensity and frequencies of human
	interferences within natural setting of
	environment has increased which aggravated
	risks of global warming along with many
	other global problems.
	Factors Responsible for global Warmin:
	* Green House Gases
	* Gren House Effect
	* Depletion of Ozone layer
	* Population Explosions.

badly failed due to non-serious
behavior of the states and weakness
- of environmental law.
Part (c)
- Geographie Information System:
G15 is a powerful tool that
- allows user to capture, store,
manipulate, analyze, manage and
visualize geographic or spatial data.  Functions of G15:-
A It is used in collecting geographic
data from différent sources.
At is need in data storage and
its management
- 1 transforms data into usable formats.
- A It is used in conducting spatial
aralysis.
- It represents data as maps, 30
models, graphs or charts to identify
patterns and trends.

	Advantages of G15:
+	It helps in improved decision making.
	+ It is efficient as it automates processes
	like map-making and data analysis
	* 9+ ffers tools to design solutions
	tailored to specific needs
	* It transforms complex datasets into
	understandable visit visual formats.
	"
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	Part (d)
	Antioxidants:
	They neutralize free radicals by
	donating an electron, stabilizing them
	and preventing chain reaction that
_	lead to oxidative stress. This process
	helps protect cells and fissues from
	Types of Oxidants:
	* Endogenous - Produced by body
	* Exogen as > Obtained from diet.

Sources of Antioxidants:	A ST. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO
* Fruits	
A Wegetables	
A Nuts and Seeds	
* Beverages	
* Spices	
A SPICS.	STATEMENT OF THE PARTY OF THE P
Benefits of Antioxidants:	
* Reduce oxidative stress	
* Protect against chronic diseases	
* Support the immune system	
Explain complex concepts in	
simple terms.	
Use real-life examples to illustrate	
principles. "	
Include diagrams and flowcharts	
to illustrate processes.  Discuss practical applications of	
scientific concepts.	
Show all steps and working for	
calculations.	
Use diagrams and graphs to	
illustrate concepts.	
Read the question carefully	

	gart 1
(Question-2)	-
(Part-a)	-
Lipids:-	
Lipids are a diverse group	
of hydrophobic organic molecular	
that are insoluble in water but	
soluble in nonpolar solvents. They	
are crucial component of living	
organisms and play structural, energy	
storage and signaling roles	
	-
Types of Lipids:	
O Triglycevides.	
Lacomposed of glycerol and three	
fatty acid chains	
2) Phospholipids:	
L'eontains two fatty acids, a	
glycerol, and a phosphate group	
3) Stevoids	-
Ligt has a four-ring	
Arne ture	_
	_

9 Waxes
2
Gomposed of long chain falty
acids and alcohols
5 Glycolipids
These are lipids with carbohydrate
groups.
Functions of Lipids:
It is used for energy storage
* It forms cell membranes and maintain
cellular integrity
* It serves as thermal insulators and
protect organi from mechanical shock
A It act as a precursors for hormones
and signaling molecules.
A It prevents water loss in plants and
protect animal for and skin
A It facilitates the absorption of
fat-soluble vitamins (A,D,E,K).

(Part-b)
Measures for Energy Conservation
and Sustainable Use:
* Energy-efficient appliances must be
used to conserve energy.
* Renewable energy Sources must
be adopted.
* Public transport, carpooling, or cycling
can be used to reduce fuel consumption.
* Electric or hybrid vehicles should be
prioritized.
Energy afficient machinery can be
used in industries.
Natural light and ventilation must
Le vset to minimize energy use.
Awareness and education should be
provided to masses to adopt sustainable
energy consumption practices
to Grovernment incentive for those adopting
energy solving technologies.
* Energy efficient irrigation techniques
and machinery should be used

Part (c)
Hydrogen Bonding:
It is a weak interaction
between molecules or within a
molecule, where a hydrogen atom
covalently bonded to a highly electronegative
atom interacts with another electronegative
atom through electrostatic attraction.
Hydrogen bonds are weaker than
covalent bonds.
Elaborating structures:
Elaborating structures:-  (1) Water (1/20)
O H O
H
Each water metecule can form
up to four bjarogen bonds: two
as donors Phydrogen atoms) and two
as acceptors (oxygen atoms)
(2) Ammonia (NH3)

H,
N H
Hydrogen bonds form between the
hydrogen atoms of one ammonia
molecule and the lone pair of
electrons on the nitrogen atom of
another.
4
Part (d)
Central Nervous System:
The nervous system is a complex
network that coordinates and controls
all the activities of the human body.
It is responsible for the
overall management of the
body. It is considered as the
control-system of our body.

Divisions of Nervous System:	
1- Central Nervous System:	9
* Brain:	
O Cerebrum: It is mainly related to	
thinking, memory and emotions	
2) Cerebellum: It controls and manages	
the body coordination, long-term	
memory storage and body balance.	
3 Bainstern: At regulates vital functions	
like heart rate, diseathing and sleep	
(4) Hypothalamus: It manages hunger,	
thirst, menstural cycle control.	
 * Spinal Cord:	
It takes sensory information	
from the body to brain and manages	
reflex action	
2- Peripheral Nervous System (PNS)	
It consists of all nerves	
owide the central nervous	
system, including cranial & spinal nerves	
	4

	It connects certical nervous system	
	to limbs, organs and tissnes, Moreover,	
1,	to limbs, organs and tissnes, Moreover, it facilitates communication between	
	the body and the central nervous	
	system.	
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	SECTION-II
	(Question - 8)
	Part(a)
	5.0l;-
	length of the classroom = 15 ft
	width of the classroom = 60% of length
	$= \frac{3kd}{8a}(15)$ $= \frac{3}{8}(38)$
	= 9 ft
	Room Dimensions:
	Length = 15 ft
	width = 9 ft.
-	Thus dimensions of room are 15 ft x 9 ft.
	Part (b)
	East distance (a) = 48 ft
	North distance (b) = 26 ft
	straight-line distance (c) =?
	using pythagorean theorem,
	·

The state of the s	TO AND A STATE OF THE PROPERTY
	$C^2 = a^2 + b^2$
	= (48) + (20)2
	= 2304 + 400
	c' = 2704
	Taking square roots on b.s
	VIZ = 15704
	= 52/1
SERVICE CONTRACTOR OF STREET,	So, Veen gold have van 52 ft if
	she had run straight from where she
	started.
	4)
	Part (1)
	5.l:-
	No. of Students = 40
	Incorrect average = 52.15
	Now,
	calculate total marks based on incorrect average
	52.15 = Total. Marks
	40
	Total Marks = 52.15 x 40
	= 2086

AND THE RESIDENCE OF THE PARTY	
And the second control of the second control	Naw,
	Average = 2086 to 49 + 85
	40
	= 2122
	40
	= 53/05
	50,
	the voriet average is 53.05.
Antonomia republica de la company de la comp	"
	Part(d)
Name in the content in the content of the content o	Sol:-
	Vegetable lizza lover = 37
	Chicken 11 11 = 25
11	Neither = 3
11/	Event (miken Pizza lover) = No of ways of occurrence
	Total Possible outcomes
	= 528
	6513
	z 0.3846
	So, the probability that a person
	likes chicken pieza is approximately
Secretary and a second and depote the second	0.3946 or 38.46%.
Name and Address of the Owner, where the Parks of the Owner, where the Owner, which is the Owner, w	