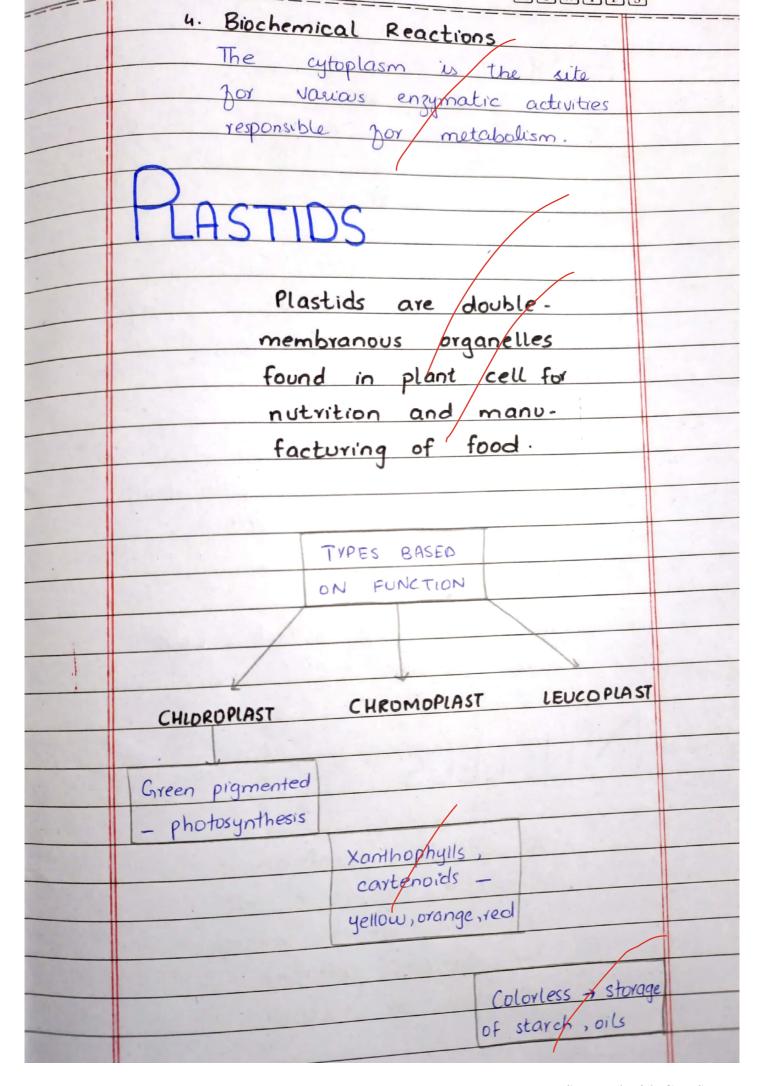
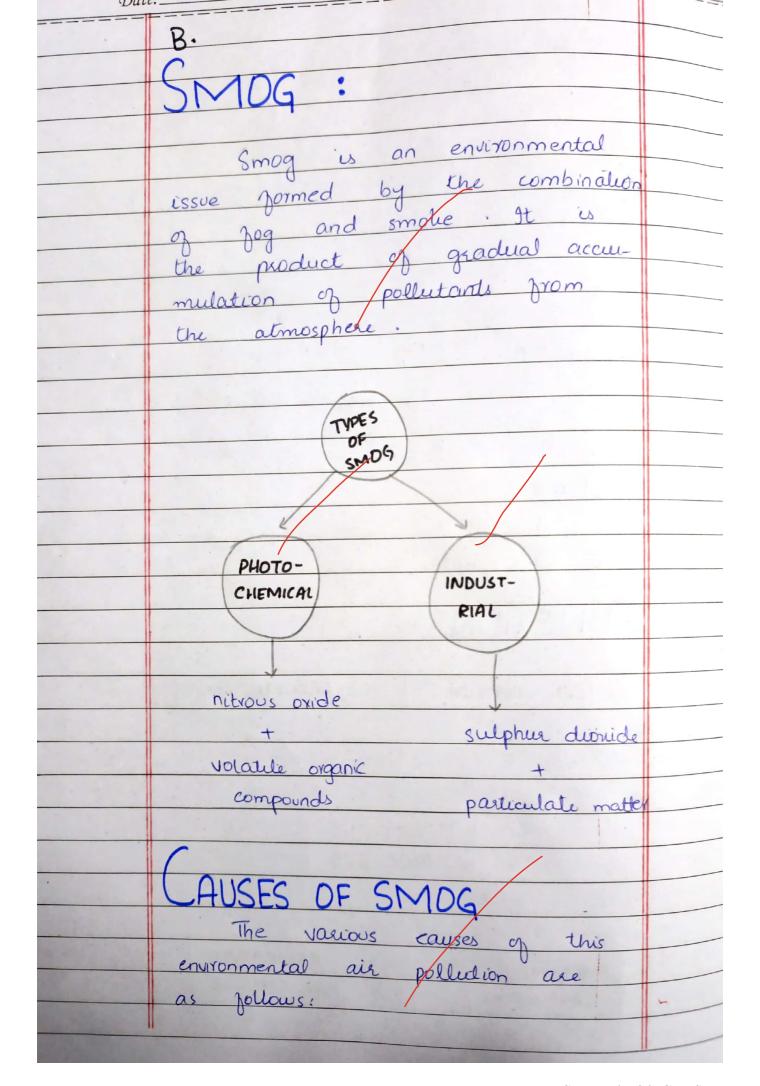
	GSA - 02
	Batch:59
	Hamna Zainab
,	QUESTION - 01
	Cell a basic vriet of life.
	Explain structure and Junction
	of cytoplasm, plastids, nucleus.
	CELL: UNIT OF LIFE
	Cell is the basic structural
	and junctional write of life,
	Jundamental for all biological
	activities. They are exential to
	provide support, growth, metabolism
	and reproduction to human life.
	(VTOPLASM :-
	STRUCTURE
Mark Land	
	A semi-solid fluid substance
	of a cell, exterior to the
	nuclear membrane and inter-
	ior to the cellular membrane.
	Cytoplasm comprises of:
	· cytosol
	· oraginelles · ujtosheleton
	· iglisherasi

Date:	
Cystosol	
The Hund minitude of ions,	
nutrients, enzymes and other	
essential substances.	
Organelles	
Organelles are the specialized	
structures such as vibosomes,	
endoplasmic reticulum, mito-	
chondaia.	
Cytoskeleton	
The retwork of proteinacous	
filaments involved in providing	
the structural support.	
FUNCTIONS.	
1. Storage System	
It serves as the resorvoir	
for nutrient sich molecules	
like glycogens and lipids.	
2. Intracellular Transport	
Cytoplasm serves as the medium	
yor transport of organelles	
nutrients and wastes.	
3. Support system	
Presence of cytosheleton maintains	
the structure and support other	4
organelles.	



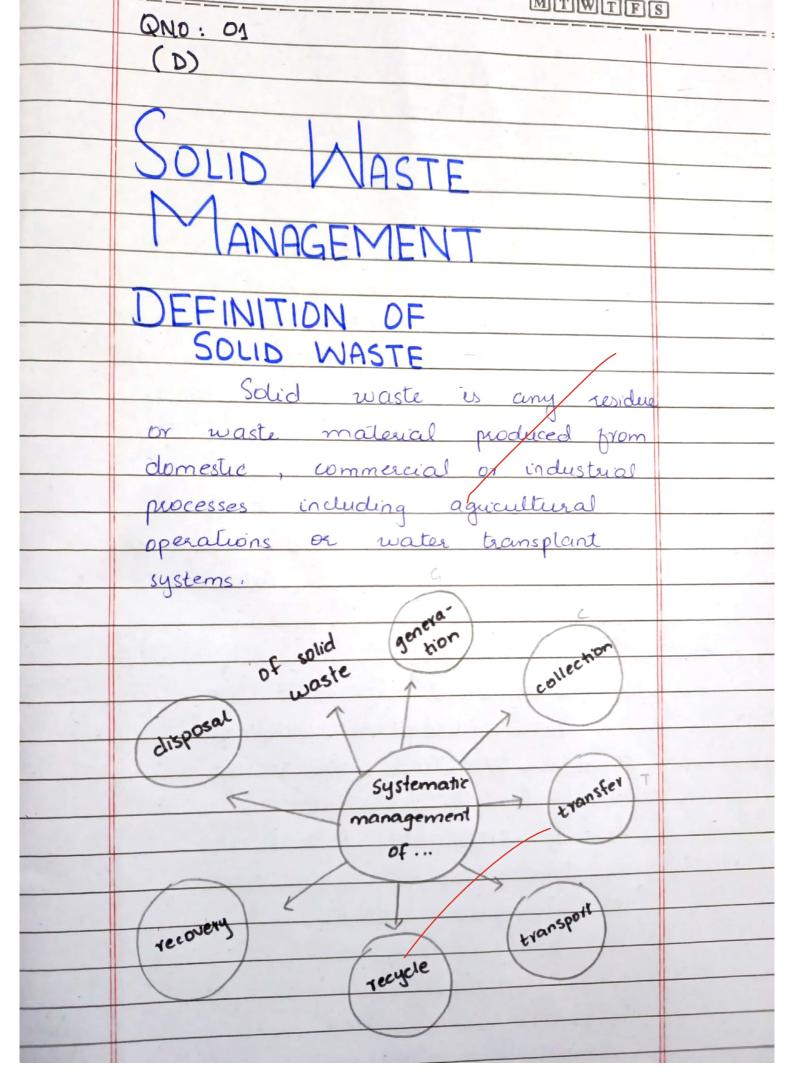
FUNCTIONS
1. Photosynthesis
Chromoplast have green pigment
responsible to break solar energy
into chemical.
2. Energy Production
Plastids are involved in energy
production required for various
metabolic activities.
3. Pigmentation
Pigmentation and in pollination
and dispersal of seeds.
4. Storage
Leucoplasts store starch, oils
and proteins
The second secon
NUCLEUS
A double membranous
organelle within a cell
containing genetic material
for various cellular
processes or activities.
The complex structure of nucleus
comprises ty &

Nuclear Envelope	
Double member	braned separating
nucleus from	cytoplasm for
euchange	
Nucleoplasm	
The gel-like	substance, with
mucleoli and	(chromatin)
Chromatin	
Mixture of	proteins and DNA
cordensing into	chromosomes
Nucleolus	
	gion responsible
yor vibosome	synthesis
00 710030.7.0	
FUNCTIONS	
PONC NOIS	
CELL DIVISION	GENETIC CONTROL
CELL DIVISION	
K	7
FUNCT	
NIIIC	LEUS
1400	
1402	
1400	
RIBOSOME	REGULATION



	MTWTFS	0
	1. Combustion of Fossil Fuels	:
	The buening of coal oil	= 4
	and gas releases hazardous	
	greenhouse gases.	7.5-
	2. Deforestation	_
	The reduction of trees causes	
	eucessive amount of poor pollu-	
	tants - avoiding natural aur	
	A second	
	3. Urbanization	
	The increase in population	
	re cricease in population	
	results in competition for	
	good and shelter	
	4. Lack of Monitoring	
	Ineffective and insufficient	
	environmental policies to	
1	lode at poor air quality	
	inden.	
	- C Pollutonts /	(U)
	5. Emission of Pollutants	
	Emission of compounds like	
	SO2, NOx from industries and	
	burning of ceop, animal was	2
	releases haemful gases and	
	particulate matter; into the	
	1 acal aca	
	atmosphere.	

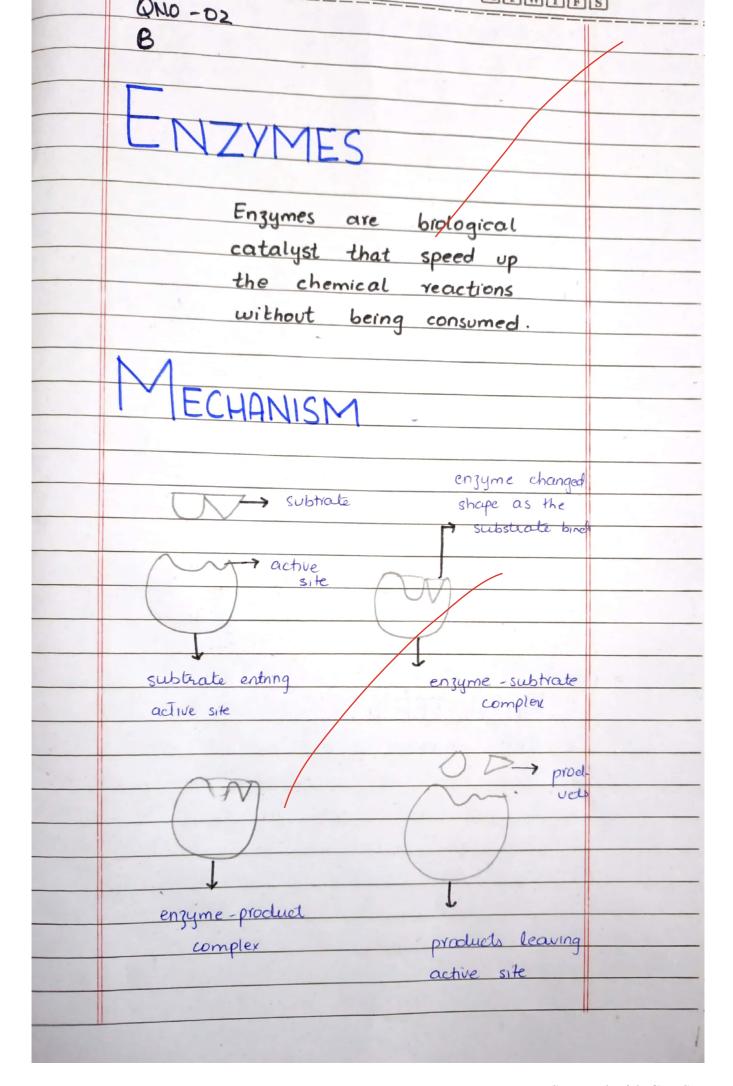
Da= :=:==	
PREVENTION	
1. Urban plant	ning and green
infrastructure	
Developing	green belts and
planting mor	e trees on clear
bassen land	
2. Sustainable	Agricultural practices
Ban and	punishment on open
buening of	residue and jossil
huel.	
By promot	ing agricultural
priendly too	ols in farming.
O O	
3. Industrial	Emission Control
	systems like filters.
	d electrostatic
precipitators.	
4. Technology	and Innovation
	renewable energy
	carbon capture
storage techn	
3	
s. Vehicles Cor	itrol and lifestyle
	ing system and
	t, preferring walle.
	ng energy efficient
	9 21 99
appliances.	



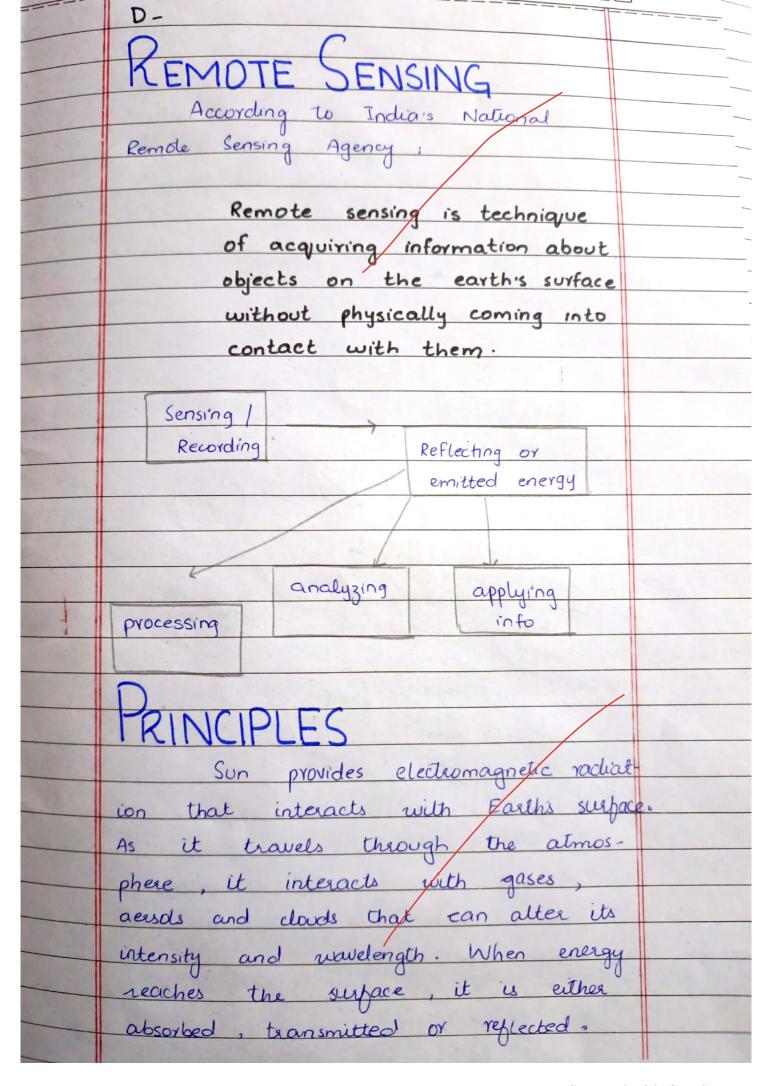
Date:	
WEAKNESSES OF SM	IM
TAL POWETTAN	
IN PAKISTAN	
According to the World Bar	ru;
The current global mur	nicipal
solid waste generation	
levels are 1.3 billion tor	11
and are expected to	
to 2/2 billion tons lyes	
year 2025.	
The multiple factors that le	eads
to the inefficiency and wea	The state of the s
in SWM particular in Palusto	an
age as jollows:	
i. Increase of household size	
ii. Open burning and dumping	
iii- No scientific SWM system	The state of the s
iv- Unplanned urbanization	
v. No appropriate disposal site	
vi- Inadequate human resources	
vii- Unengineered landfillings	
ix- Poor sanitary system	7.5
x - Inappropriate plannings	
*i. Error in weighing waske	
management system	
J	

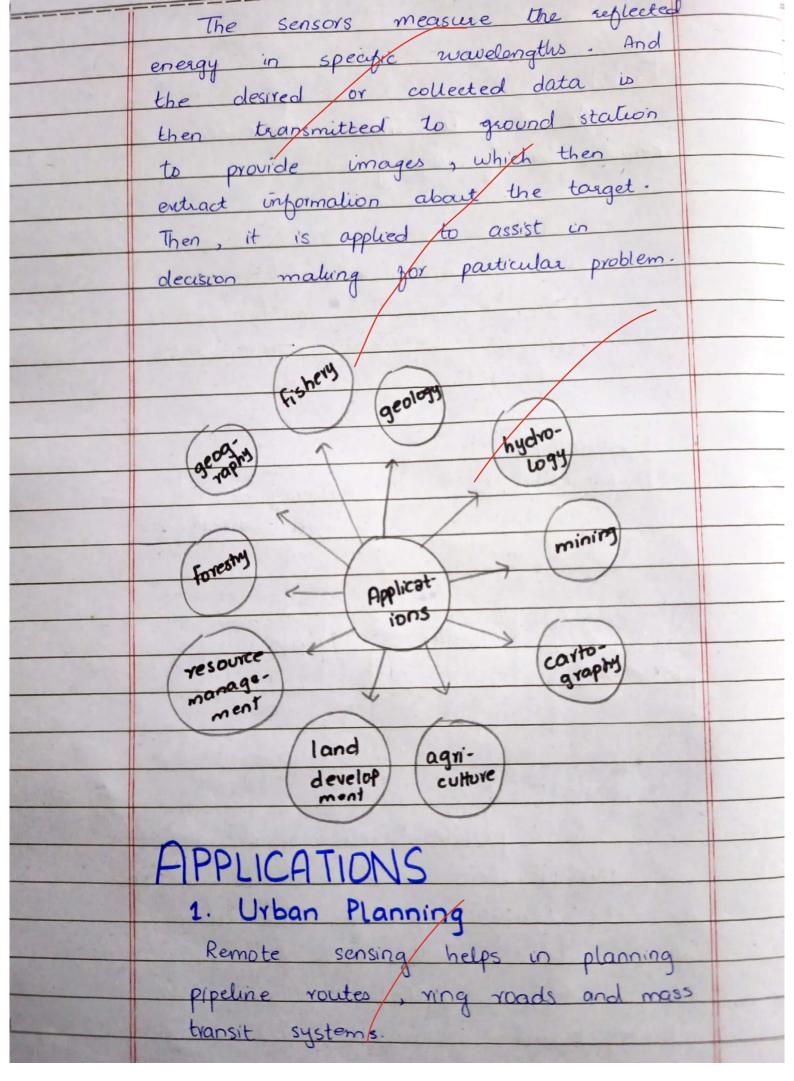
	QUESTID	N - 02			
	HUM The body	AN Br e vital unctioning a	organs or	human, hidney,	
	STRUC				
1		ian brain	compaise	s OA	
	three po			0	
		/			
		PARTS C	P		
		BRAIN			
	/				
	FORBRAIN	MIDER	AIN	HINDBRAIN	
and the second		***			
		HYPO THAL AMUS		RE- PONS	
THALAMUS	CERE BELIM	-	1		MEDULA
	/	TECTUM	MAGMENTU	M	
	FOREE	BRAIN	ol comple	en part	
	of brain	largest an	- order	Junctioning.	•

Cerebrum	
· cognition and Uninterna	
· regulating emotions	
· motor control	
· learning and sensory processing	
Thalamus	
· Yole in consciousness	
· relay center por sensory information	
Hypothalamus	
maintains homeostasis	
· controls enclocaine system	
· regulate hunger, body temp, sleep	
aycle	
The transfer of the second of	
MINDBRAIN	
Hindbrain connects brain to the	4
spinal cord. It performs various functi	ionsz
Medulla Oblongata	
· regulates autonomic junctions	
· control refler actions	
Pons	
· regulate sleep cycle	
· act as communication bridge	
Cerebellum	
· coordinates voluntary movements	
· maintains body posture	-



Date:)
	1. Substrate Binding	
	Enzymes binds to active site	
	forming enz-sub complex st	
	is highly specific.	
	. lock and key model	
	· induced fit model	
	2. Catalysis	
	After binding, enjymes lower	
	the activation energy by stab-	
	dizing transitional state	
	3. Product	
	The reaction occurs and convert	
	subtrate into products.	
4	Release	
	Then enzyme is released the	
	product and remains as new.	
	110000000000000000000000000000000000000	
	LHARACTERISTICS	
0	They enhance reaction by 106-1012	
0	They can be reused; not consumed;	
	Enzymes are highly specific	
	They are proteinacous in nature	4
	They are sensitive to pH, temprature	1
ALTERNATION OF THE PARTY OF THE		





surface to know the status	
of biodiversity.	
3. Land Mapping	
Remote sensing used you updated	
land use pattern, occuring from	
time to time.	
4. Disaster Assessment	
RS techniques have been jound	
to be highly affective in the	
disaster damage assessment.	7.5
6. Coastol/Zones	
It is useful to provide data	
on such zones along with	
moritoring of environmental deg-	
gradation.	
QN0 - 2	
D.	
REVENUE NEDCY	
RENEWABLE INERGY	
The energy sources that are obtained from human resources	
are obtained from human resources	
which are replenishably with human)
time are called renewable energy	
resources. They include; salar	
wind energy.	

Date:	
REDUCING COST Transitioning to renewable is essential to	
Transitioning to renorted to	
Transitioning to resources to essential to energy resources is essential to	
energy resources is address environmental shallenge.	
address	
1. Conservation of Natural	
DACA: WCOS	
able energy systems Offers	
on non-enhaustible resources lutie	
sunlight, wind reducing damage	
of natural resources.	
Tidade (84)	
2. Reduction in Greenhouse	
Emissions	
Renewable sources less emissions	
that aid in combating climate	
change reducing coz and CH4	
levels.	
3. Waste Management	5
Fossil fuel combustion produces	
harmful wastes that can be	
reduced by renewable technologies	
4. Reduction in Land Degradation	
Installation of systems 1.1	
solar panel and obshore	
grims, cave little land hard	
print preventing natural aura.	4