



	:br
	pigments that help in the process
	of photosynthesis.
	Thylakoid
	(6) stroma
	outer
	lamella inner membrane
	membicine
	The plastics have a prembranes. The
	outer membrane is the primary
	covering of the organelle. Inner
	membrane is the secondary covering.
	The grea between the inner and
	outer membrane is called stroma
	intermembrane space. Strema is
	the agreeus pluid present within
-!	the plastid. Lamella are starked in
	several piles in the plasticls the from
. 11	Trylakoid.
	V

		wt.
	Plasticks can be classified as chloropla	st
	chaemoplast and leucoplast. Each of	
	these has seperate functions.	
	Chlorephyll helps in photosynthesis	
	hence plastics are required for food	
	synthesis chromoplast contains	
	pigment and prevides colour to	
	plant cells. They also act as a	•
	contributor to pellination lessopla	sts
	act as storage agents.	
	NUCLEUS STRUCTURE	
	AND FUNCTION	
	Nucleus is madeup of several	
7	elements. 9t has a nuclear envelope	
	nuclear lamina, nuclealus and	
0,	nuclear pares.	
Q.		
ш	mudeau porce	
IN	nuclear	
and	envelage.	
VE.	nucholus	
112	nuclear lamine	A L

\mathcal{M}	
All the components work to make	
the nucleus occumplish its function	1 K.
Nucleus controls the genetic informat	ten
of the all and thus the heredity	
characteristics of an organism. cont	rel
of the protein and enzyme synthe	
it also streves DNA, RNA and	
ribesomes. It is also responsible from	
the production of ribesiemes. 9t	
appears as a dark organelle at	
the center of the cell.	
Trie certific certific certific	
	-

	رخ: رخ:	
	Question # 2. (b)	
ien	NEPHRON	
æl	Nephson is the basic functional	
is,	unit of kidney, it is responsible	
	you removing waste from the	
	Dodge Face hidean is	
	body. Each kidney is composed of	
2.0	more than a million nephrons that	
	are present in the renal contexi	
· .		
	Unfiltered blood renal contex.	
	Filtered renal medula	
	blood.	
3		
	Wether.	
	Figure: Structure of Jachney	
	glomerulus	
	distal conjudated Renal constant	
	tube	
	proximat	
100	Figure:	
•	structure of boop of H	enle
and the state of t	Nonhan.	

STRUCTURE &	
The nephron consists of a renal	_
capsule that encloses the glomewho	
a proximal consulated tube,	
a loop of Henle also called as	
nephion losep, a distal consulated	
tube and a collecting duct. The	
collecting duct is sociated in the	
- Pyramids of the kidney's medulla	
The state of the s	
FUNCTION	
The main function of nephron is	
to filter the blood to convert it into	
unine. It uses four mechanisms	
to convert blood into wine.	
filtration, reabsorption, scretizen	
and exception. The glomensus hills	
the blood when the blood illinus	
into the nephron. The tubula vature	
the required substances to your in	
and removes the wastes. The home	
vessel that uns aliena the till	
readsorbs almost all the water	
with minerals. The excess toxins and	

	the remaining pluid is what from	A CONTRACTOR OF THE PROPERTY O
	usine.	
u u		
	Question # 1(c)	
21	SMOG	
	Smog is a type of air pollution	
	that has gripped the work.	
	9t is a mixture of smake,	
	freg and various pallutants mainly	•
	as a result of human arctivities.	
4	CAUSES OF SMOG	i
	These are several causes of smag	
	The main causes include, inclustria	<u> </u>
	emissions, vehicle emissions, burning	
	of fessil finds, agricultural activities	3.
	uildfires etc	
	INDUSTRIAL: Factories, pour plants	
	and refineries release large amounts	
_	of pollutants such as sulfur dionide,	
	II ~ IITAAAA TAMMIITAD. (ALITA LAWAIDADA	

	matter into the almosphere. These
	chemicals can compine with other
	almospheric elements to from smag.
	VEHICLES: The smoke and coupon
	emission from the vehicles release
Trotal Manager	nitrogen oxides, carron monoxides
	etc. These pollutionts are large
	contributers of smoog due to heavy
	trappic.
	AGRICULTURE: Fectilizers, pesticides.
	and methane emissions from livestock
	can also centibute to formation
	of smag.
	WILDFIRES: smake from forest
	fires and uisloifixes releases a mix
	of carbon monoxide, heavy smoke
	and several other pollutants into
	the air that lead to smog fromation.
	PREVENTIVE MEASURES
	FOR SMOG
	Proposing preventive measures for smog
	involves reducing pollutant emissions

-tr	(b)
	and improving the air quality. some
	of these purentie measures include
meg.	Reducing rehide emissions, improved
ben	Industrial regulation, carbon taxation
se	policy review, improving gran spaces,
es	controling agriculusal emissions
	REDUCING VEHICLE EMISSION.
ny	Premating the use of public transportation
V	sustems, encouraging carporating can
ides:	reduce the number of vehicles on the
vek	road thus reducing emission
	Use of cas extract filters can help
	trap dangereus particles, soot etc to
	orevent them from entering environment.
	IMPROVED INDUSTRIAL REGULATION
	emplementing strict emission standards
	you industries and power plants can
	help seduce smoog.
ration.	CARBON TAXATION POLICY
	A carbon time aimed at reducing
	raiben emissions can also help control
	this issue of has been a potential
oq	area of development and by integrating
J	a carbon tax at natrienal level for
2	

energy and haraport of agriculture sector can improve the dimate in Pakistan.

GREEN SPACES: Planting more trees and improving the green spaces and urban fourts an help absorb pollutants like (02 and improve air quality.

CONTROLLING AGRICULTURAL EMISSIONS: Implementing

sustainable agricultural practices such as reducing the use of chemical festilizers and pesticides, can help seduce the pellutants that contribute to smog.

		b t
	Question # 1(d)	
-		
-	SMW	
-		
-	SMW refers to solid waste managem	ent,
-	It includes collection, transportation	
	processing, recycling and disposal	
1	of solid waste management materia	s ,
-	in a way that makes our environr	
10	theire and minimizes the negative	
	imparts of waste 9t typically	
	involves components such as	
	Waste collection: Gathering solid	
	waste from households, industries etc.	
	Waste transportation: moving waste	
	te transper station, treatment facilities or lan	odfills.
	Waste Greatment: Processing waste	
H	mough recycling, composting, or inchesals	on.
11	waste disposal: final disposal of	-
11	vaste that cannot be used, to land &	lls.
	JEAKNESS IN SMW OF	
	PAKISTAN	7

	Despite being an essential aspect	
	of environmental management,	
•	Pakistan's SMW faces several	
	challenges such as:	
1-	Inefficient waste cultation Systems	
2.	Lack of Proper Segregation of	
	waste	
3.	Inadequate Recycling facilities	
4.	Limited waste- to- Energy	
	programs	
5	Uncontrolled dumping and land-	
J	1:11	
,	fills	
. 6.	Lack of Public awareness and	
	participation	
1.	United government & institution	4
	capacity	
8.	Overdependence en landfills	
9.	Ineffective policies	(
10.		
10.	Inadequate Financing for Waste	
	management.	
	V	-

1000	300	
	The solid Waste management systems in Pakistan Jaws numerous challenges	
	The absence of comprehensive and	,
and the second	coordinated policies combined with	
	limited resources and institutional	
	of huge today. Imprevement in	ng
	Parkistan's SMW will require concerted	
	efforts from the government,	
	private sector and public Key steps	
	trewords Empresement would include	
	investing in waste segregation and	
	recycling infrastructure, premeting	
	public awareness campaigns, enforcir	9
	environmental regulations and improve	red
	land filling.	
	· /·	