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Pollution - 11 Follution is defined as an undescable change in chemical, physical and biological characteristics of aix water and soil s cohich create health hazard to living exganism and harmfully affects the life. pollution is cardised by the pullutants' Pollution is cardised by the subjections that create pollution. It may be solid liquid or garever.
They among that are the following -
Jupe of pollution Jupe of pollution Air Water Soil marine Radio Noire
pollution pollution pollution active pollution Thermal Solid pollution wate Industrial
3 Pollution waste pollution.
3

7	follutions are cause mainly due to following susons.
_	folitions and training and so foliated
-	Heasons
	1.) Natural Sources:
_	Thank Share
1	(i) Smoke and tyace gases prudure from fourt fire.
1	the dest from stroms from dust vetroms.
-(in gases rule are fundm. volconis to volconic telliption
1	N) Volcanic ast.
_	(v) gases rulean from the decay of organic
_	matter.
_	
-	2) Man Made Sources:-
-	1000 7
-	(i) Smoke and dust particles from industries.
-	(ii) Smoke and duet particul from automobile exhort.
~	Cill Solid waste due to oewil-wbanization and
-	ouly population.
_	(iv) Construction of soods buildings etc.
-	(A) elosestamon & obstanction of wateral Lapitet
-	(vi) I funtlizers, perteritus, Insectetise. etc. (vii) Medical wast and Georbage.
-	cell reacal wash and good age.
-	Ma I D
	have caused serious determine alterment to the
	envionment.
	·

611 173 ิ wisit for more: https://devangspsingh.githนูอู่io/B-Tech-Work/ > Different types of enviornmental pollutents:-6 Some pollutants shot are surponsible for 6 different kinds of pollution 1) Gases -> Ex - coubon monovoxide (CO), coubon dioxide (COe), Rulphun et Oxide (SU2) and Hologoni 6 12) Matles -> Ex -> Mercury, lad, Lyon, Zinc etc 3) Acid droplets -> ex - Sulphunic acid, miline acra 6 ≥41 dgno chemical -> Ex-> pestaviter, funtlizin. etc 5) Noise -> Ex-> € 6) Solid wastes -> Ex- Industrial ass garbage. > Water pollution < water pollution may be defined as the presence of impuniches and other pubstence ob C such a quantity that clower 9 it's quality, makes unfit 0 health heajard C The water quality for human consuption should busie, wator l'exactel conform to she water quality standards. Set T

visit for more: https://devangspsingDatehub.io/B-Tech-Work/@ Luman consuption. They are should be proberless odurles 2) If should be few of suspended sold 4) The pH valu I should be 7 5) H should be four of toxic Subistances that may have serious long term effects -> Cause of water pollutionmajor sources. twater pollution any the following-1) Sewage and Sewage and other waste. 2) Industrial effluents 3) Agriculture Objectanges 4) Industral wortage 1) Lewage and other waste :-Sewage wi the water born warte derve from domestic voilence animal and food processing plants. It Includes human excreta, paper, clother, soap deturgents etc. Then constitute à major brobosigns of areto pollutents: there is in unconfected dupping of wastege of Mural amai, towns and cities in to ponds, laker, etreame or eineres, du to ethumulation Of sewage and other wastage in other bodies,

them not able to recycle other and other self regulating visiChlathote intips://devangspsingh.github.jo/Battachen/prk/
phosphate au ale major ingriden alla battachen/prk/
they favor tex wiant growth of algrein which 2) Industrial efferents - form water Stumes. Slooms water: This decrease is oxygen level. 2) Thoustoial effluents: wide confide veryity of inorganic and organic pollutant sumain present in influence from steal Industries paper and pulb mills, digna dying extitextiles etc. there includer oils. quenger, plantic, metalic waste sorces eljer etc. many of these ove not as reabily suspectable O degradation at their cause. 8041 our pollution that increase the howness of water 3) Agricultur olige hauges!-Modern agriculture relo rely heavely on synthetic chemical cohich include different types of om furthlizer, pestarioter. Shere . chemicals along U dit with waste are washed of lence sherough evigo enigation, erainfall etc. yeaching Finto the civery lake, stream Troper they disturb the natural 1 eco system.

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4) Theturnial manage:
Publication from manufacturing or chemical. processes in Industries contribute to water pollution. Industrial waste may be toxic or recettive of in property manage this waste ean cause dangurous health and enviornmental consequences.
-> Effects of water pollution:-
cohich hell aquatic organism and may read human body dhybugh contomenated food
(it) phosphosus and nituates from feetilizers. and delingent. contornate the surface
end promote the due of well of the dubred oxygen. I could of well.
aii) Water hand diseas like-tulide, durentur
coluna are the predominent healt hagened hazerds arriving from drinking contomenate water.

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(v) oil pollytents have been known to be Known to
is be surporeable for the death of many
s be ourponeible for the death of many water birch and species.
(XX) -> control measures for water pullution ?
3
3 waste water treatment is an executival.
necessicity seems the water ellemences.
Main aim of this treatment is to remove
contoménatar various measures adolpt for
waste water treatment are listed below-
(1) Pretreatment:
3
9) Str- Sereening of large material such as bottle
cans water tenk ete
3 to) comminutory a is a mechanical electice That has
= cutting edge what vieduce solid to smaller
particles.
c) The water basses themuch the Gord Gost
3 c) The water passes through the Gorean Gorit
3 majorial au elemoue.
2) Primary freatments :>
Sedimentation Sedimentation
Jank here particler are further seem our
Total Contract of the Contract

The cooler ale lander of the second of the s
settle on the floor of the dank.
Selfa on the floor of the Gank,
Lair(3) Secondary Treatment:
Primary elilluente in agreed into layor agreeding
Psimory effluents is passed into large affection Jank a exaled bacteria grow vigorously den Joshis & BODC Biochemical oxygen demand) of reffluent & suduce.
du to this & BODC Biochemical oxygon
demand) of effect & suduce:
(+) Terliany Treatments-
Once the BOD is reduced as po it passed into
settling Jank and filltwed after fillwation
water goes into chlosonation U Januk.
Secondary treatment de rection tank 30
trealment disinfectant disinfectant
2 - raw sawage
offluent 1111. daily i
eb lues ;
Secondary Secondary
comminutor. disch-
air composition wige
ace walch
1 Partinois Charles Ch
1 retwin eludge treatment.
row sludge
941+
chamber grit disposal zludge treat, and it disposal

weit for more: https://devangspsingh.gith@ate/B-Tech-Work/ Noise Polytion) The unwanted sound at in the atmosphere D is called noise pollution. Noise is express in term of the unit called decibal (di 2 noise level can reach from Mange from 0 to 120 décibal (DF) (dB) noise beyond décibal causes physical discomfort. >: Sowices of noise pollution: (D) 1) various industries Such ex textile mills, printing puess make a moise pollution. (D 32) Transport which which lker - trains, tuncks, buse etc. : also cause moise pollution. B 3). Domestic- Oblincer such ar- cooler, washing mechane, 6 Guinder, vaccumcleaner, gooser, ate au du sources 6 of moise pollution. Entertaining equipment like - toV., Jadio. also contrubule to noise pollution. operation such as blasting construction 5) work etc and we of eracken on festial occation also contentaite she moise publisher => effects of moise pollution == 1) Noise can came temperary or permanent heavingloss. 2) Moise interface the communication of human beings. **A**

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- Laterana :
3) Et cause anxiety 4 stress. 4) Domage to hard byain due to populonged
4) Damage to Thata Dyain au to
newy,
moise pollution.
s) It cause emotional disterbence.
6). It reduce the work efficience.
CN.
-: Control of moise pollution:
1) Propenlubrigation and Maintonce of the machines.
can reduce the noise.
2) There should be silence zone around the
- Mexidencel and for bitals.
3) Using eilencer to conduct noise from auto-
- mobiles.
4) cooker should be us e-hear earplug and
eagments.
54 Noise Buoduction industries should by
- societion away from the human softweeness:
- William to the second of the
6
§

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-: Air pollution:-
dix pollution is the excessive concentration of foreign matter in the cur which adversely
effects the human beings, animals, plants and
their enviornment.
air pollution take place through the pollutants of gar, solid and liquid particle of both organic and inorganic chemicals.
both organic and inorganic chemicals.
3 BOTH DEGINE UND THU FYUNIC CHEMI CUIS.
-: Types of air pollutants:-1.
Ason pollutorts can be classified into two partsonistist
But the state of t
1) Primony pollutants. 2) Secondary pollutants.
J. D. 11 12 1 20 20 20 20 11 1 1 2 11 11
1) Primary pollutants - These are emitted directly into the
Duimany sollutants include pagnet station Industrial
plants and wood than shout
primary pollutants include power station, Industrial
2) Secondary Pollutants - Thise Type of pollutants are form
x-x-Jx-x in the air on the negult of
2) Secondary Pollutonts - These type of pollutonts are form X-X-X-X in the arr as the negult of chemical neactions occurring between primary pollutants.
<u> </u>
-: Causes of air pollution:
The missible squee of air notherion our desides into
1) Ala lallawana tanà any tenang tanà and any
The principle cause of air pollution are divideranto the following two parts of types -
1) Natural causes 2) Manmade causes.
.)

convenient but also emist d'ongerous pollutions

such as earbon more exide, carbon di- oxide,

Sulphur de- oxide etc.

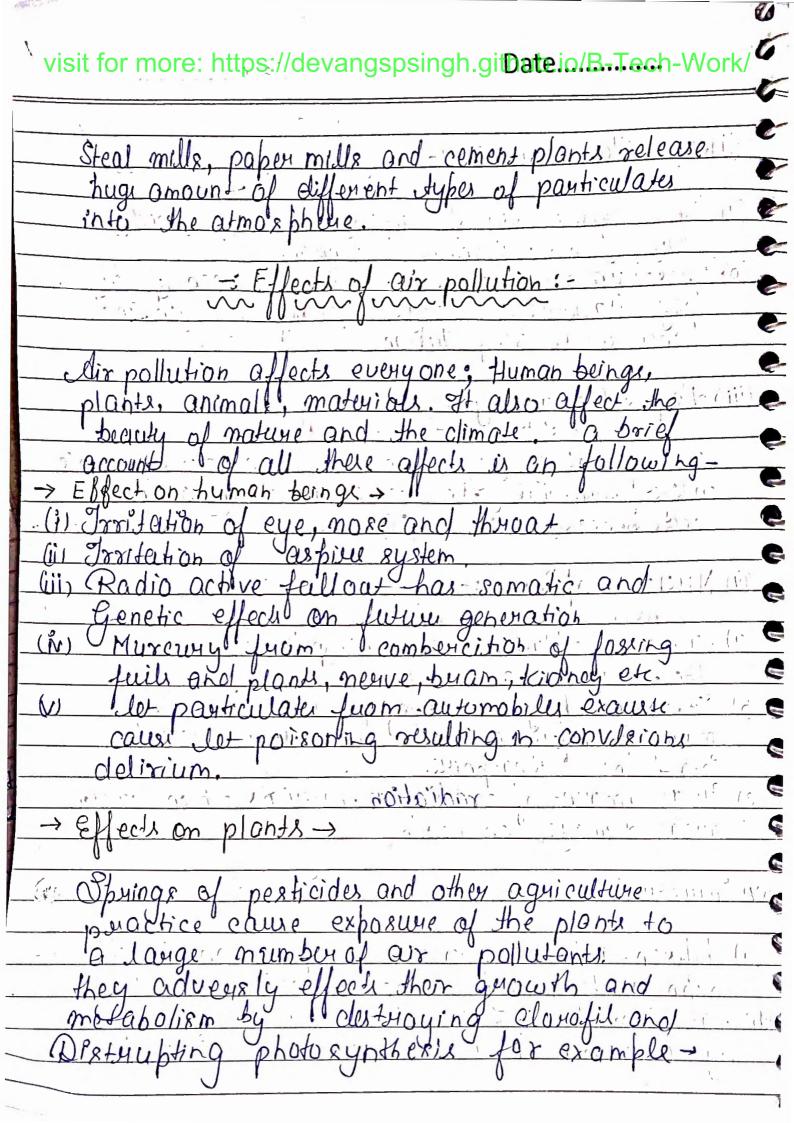
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9

5

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	Date
(ii) Agriculture activities:-	
3	r - r - r
cause then enviornmenta	tilizers and pesticides
(b) These chemicals cause as	r pullution when shroyed.
(b) These chemicals cause as they also travel large	obstance by air and
> hence cause air pollution	,
3	in the same of the
Wishoral of garbage:-	in the state of the state
	71
All types of bindeguadat	le and non-biodegnadable
waster material produce	1 8 make when towint
> and hence cause our pol	I wtion.
	the second second second
(i) Nuclean explosions:-	to the state of th
(a) A nuclear explosions causes	air pollution accuses
The large area.	Street, de la constitución de la
3 b) It release huge amount of	pollutants including
mainy harmful chemicals	and aust particles
into The asmosphere.	
(c) Huge amount of radio activ	e materials which causes
the large auea. b) It release hige emount of mainy harmful chemicals winto the atmosphere. (c) Huge amount of radio active great damage on health	1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(v) Industrial wastage:-	(s)
(a) different industries produce	air pollution in dillegent
morney depending on the	processes involved
(a) different industries produce morner depending on the (b) Pateralium refineries emitted hydrocarbons, Industries 8	lange amount al
hydrocarbone, Industries &	uch as iman

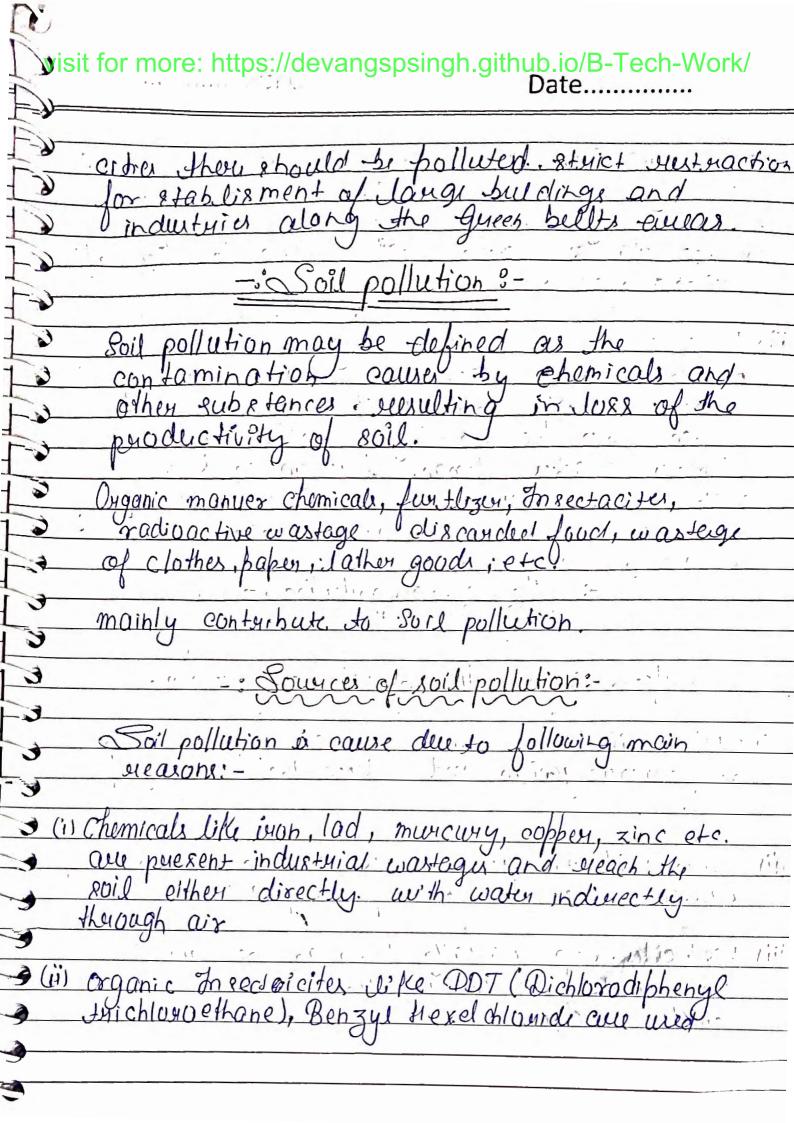


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Materials are affected by as pollutables due to

the following levasons
shamical attack (i) chemical attack (ii) corrosion sail Deposition and vernoval of materials. The demage cause ever in the following manneris Suphur di-orid, acid rain demage the paper Buittle and leather this integration by Sulphur di-oxide and acid gascini. (iii · ozone, sulphus ·di - oxide, nituagen ·di oxide deteriorate and reduce the tensile strength of textile

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<u>→,</u> (effects on canimals:
	when the animals fud on the particulate casted slank they get affected with an renic poisoning. Let pointoning effect is brought and
	lack of appletite in per animals.
(4)	The Joyest cover should be protected.
	firest cover is essential formaintaining. The quality of air. Rue obsorbe causon- cli-oxide and welease exygen.
	Cheap devices for controlling as pollution should be developed.
(iii) f	ventire measures should be adopted to
(v) 5	h Industries there should be awangement for
(1) El	ecture engine should be used instead of
. 0	reen bellts should be ereated such awag hould be developed awnound denlif



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again soil Borne pests they accumulate in the soil
as they degrade very stowy by soil and water
bacteria they have a very deleterious effects
In the plants Growth and reduce the size of
The state of the s
(iii) Radio active wastage from mining and nuclear
processes may reach the soil viawater.
from the sold they reach the plants and
ultimatly reacher man. through milk and
meat etc. resulting in retarted in milk
and meat abnormal growth of mah.
- Florte of Soil rolly tion &-
-: Effects of Soil pollution 3 -
The effects of soil pollution are listed below-
(1) Water mixed with human excretes Sewage tells
In Water mixed with human excretes Sewage Kills the microsoganism and enduce the furtility of
Toil.
(ii) Urban solid wastage such as sulphish subbish.
(ii) Urban solid wastage such as sutbish subbish, buoken auticles obstauct the public passage:
41) Pesticites seep conadually through the soil and
contaminate the under genound definking
coater étarage

wisit for more: https://devangspsingh.github.io/B-Tech-Work/ Date..... florides obso absorb by alkaline soils neach to cereal enops on consumption which cause floroses. Garbage, studge and dead animal create bad odoily which cause chronic deases -: Control of Soil pollution :-The pullution of soil contuoted by adopting the following means-(i) By minimising the generation of solid wastage (ii) By yewing and secycling of solid wastege such as paper, metal parts and glass, and controls 3 (iii) By employing purper disposal methods. sty July 131. 1 (v) By treating heavy metals and toxics founds or wastage liquid pollutante. (v) (by minimising the use of auticle autilicia) furtilizer and increasing the rue of trollogical fentilizer 3 (vi) Soil envisor should be prevented. wiil By reducing wind everison by growing regitation

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-: Solid waste pollution:
The worste material cobich have been rejected
for further we and which can nowhere
non can be tught pouled by water
are called solid waste.
-: Types of waste maturials: -
. unulundunnina,
following are the waste materials -
(7) Domestic marte:
X X i with a way of the state o
Domestic garbage refer to house hold wastage and include paper, plantic, glan peace, metal
object etc.
(2) Industrial waste:-
coalean discal and deat distance and pull stade.
wastage discharge from paker, and pure Indu-
are the types of individual waste.
These wastage may contain haumfull chomical
These wastage may contain haumfull chemical such as musicury (Hg) and cyanide (CN)

 Γ°

wisit for more: https://devangspsingh.github.io/B-Tech-Work/ Date..... It includes paper, libers, plastic, paking material etc. Hat au glinerated as waste in almostst all industries: Mining activity swill in goneration of a clot of water materials such as - Substances that any removed to get to the wefull minerals For a nuclean explosions, nuclear Jesting use of uadio active substances in medical and Scientific readio active a waster Hospital waste;
Yospital wastage include disposible middle;

Pyringes, blades, human flex etc.

-: effects of Solid waste pollution:
www.lww.
- following are the various health and envioramental
following are the various health and environmental Hezard of solid waste -
(1) Flye and mosquitos breed on choked duains and
gully pit through solid wastage their flys
and water in turned cleary likes - diarahea
Molovia de our
Maleria, dengue.
(2) Stray animals and Savenger incrayed the described so the served in harming the aexthetic beauty on sure.
road side garbage dumpe it mores reserved
in hayming the gesthetic beauty on swor
- GUNCLIN G
(1) (D) (1) (1) (1) (1)
(3) Bad odown pollute the air as a result of
decomposition organic volid waite
41 Rate liena in calid exacts demoline a ceta
4) Rats living in solid waste dumping sites suppliedly multiply in number and may cause
deales.
(5) E- waste is either burn so it can have
hamfull effects on the enviornment.
0 10

