92

(a) Clean Development Mechanism (CDM)

Clean Development Mechanism (CDM), defined
in acticle 12 of the Kyoto Protocol to allow
developed countries to offset their greenouse
gas emissions by investing in reduction
emission-reducing projects in developing
countries.

Objectives of Clean Development Mechanism:
The main objective of CDM is to reduce
everall global ensistions white also promoting
sustainable development in developing
countries This mechanism aids developed
countries to fulfill their commitments to
reduce emissions through trade of saleable
certified Emission Reduction (CER) credits
in return for clinate mitigation projects in
developing countries.

Kyoto Protocol

Kyoto Protocol is an international treaty
adopted in 1997 that sets binding emission
reduction targets for developed countries.

[H operationalises the United Winers III]

Framework Conventions on Chimate Change
(UNFCCC) to Cinit and reduce greenhouse
gases emissions in accordance to agreed
and set targets

(2

Criticism on Kyoto Protocol by Developed Countries.
The Kyoto Protocol has been criticised by
Some developed countries for a number of
reasons. It has been criticised by United
States for exempting developing countries
like China and India, even though these are
major omittons of greenhouse gases This has
led to accusations that the Protocol is
unjair and places under burden on developed
nations:

Another criticism is that Ryoto Probable does not

Se sympheadings for differer
pay attention to other politicants such as
suphin dioxograpopayaphonide. This has
led to the concerns his directoped makins that
the leyon problem is not doing enough to
address the global dimake change problem.

Furthermore many developed states have criticised the carbon trading mechanism to control climate change. It is origined that the mechanism is prone to froud and abuse due to limited check and balance to credit transfer. As a repullity has been agreed that the tool is not effective to combat climate change.

To conclude, the legal wateress due to non-binding nature of kypto Protocal has resulted in the inhapire to be a failure but it may an important first step for glabal climate diplomately

b) Introduction:

A landfill is a combol measure for waste disposal also lenown as dumping grounds. There are multiple type of landfills including Sanifary industrial, and munipal solid waste landfills.

Difference between Sanitary and Industrial Landfill:

Sanitary landfills are used for disposal of waste from homes and roads.

Inhereas, industrial landfills are used for disposal of industrial wate produced by factories, mines of.

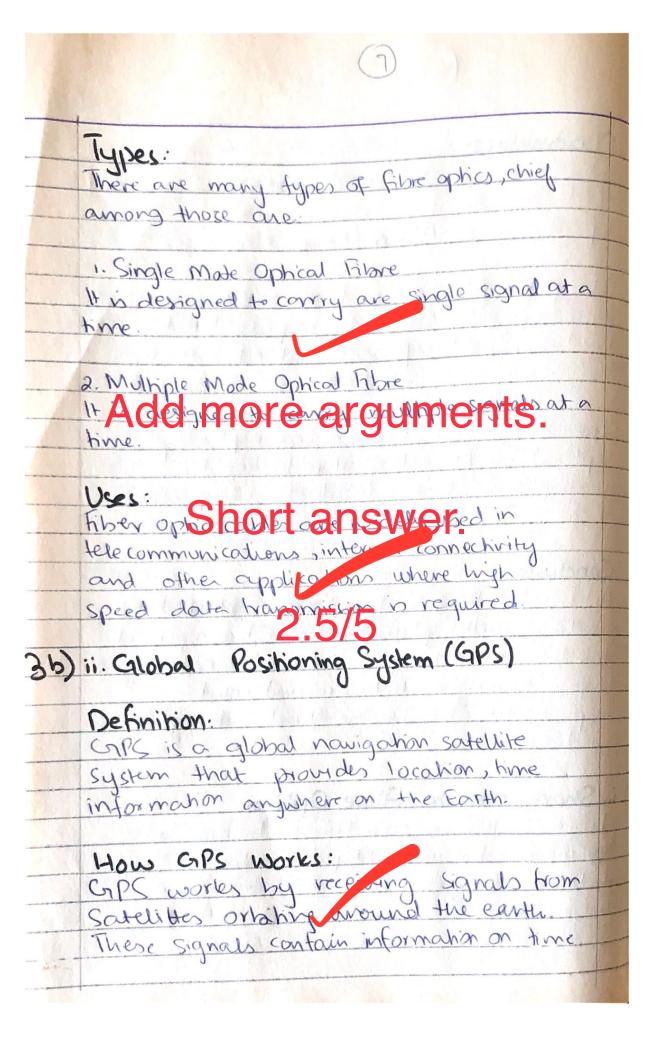
For Saniterry landfills, layers of clay are used to seperate the layers of waste. However US Ordany land for most use such layers.

Moreover, methane is extracted from sanitary landfills which is led for electric electricity production. In strial landfills also work as mater's reusable facilities in which reusable rems are extracted and sold.

from Sanitary landfills but note pipeline connections are used in inducting landfills.

La	nd Sclection Criteriat for Landfills: ndfill site for solid waster are selected on the
follo	owing culterias
and the same of the same	the same of the sa
La	nd area and volume should be sufficient
en	ugh to provide land fill concity for Several
40	ars to contain was.
J	
The	avea should not be close to water bodies
Liv	re dams or in close vicinity of population
0	it could result in a potential risk
of	contamination that can be hazardous to
aç	qualic and human life.
	The state of the s
Th	e landfill site should instead be near
wo	uste recycling site facility or a facility
Sh	whe recycling site facility or a facility wild be planned or an integral part of
tan	id fill.
	3/5
	e selection of landfill site should be based
y	on the proper assessment of environment.
al	issues as instructed by Paleistan's Miniby
VA -	orking as instructed by Paleistan's Minipay
No	progon power hour sion or other intra-
sh	ruchive such as water supply lines should
100	crossing through land fill development

	4	-
	Disadvantages:	
	Automation in tasks and increased availability	
	of digital arristance increases humans	
	dependency on AI, making them lazy.	
and the second of the	Set up for AI requires high investment	
	as companies not only require latest	
	hardware and software but also incom	
	training costs for morrison	
	training costs for workers.	
	Convention jobs are likely to a completely	
	replaced by Al in the ruture leading to	
	unemployment of individuals who perform	
	them. 3.5/5	
	Conclusion:	
	Artificial Intelligence has massive potential to	
	create a better place to live in . The important	
	thing is to ensure it is not used excusively.	400
	Despite having multiple pros and consthe	
	impact Al has on the glob industry is	
	indeviable.	
	The same of the sa	
6)	i. Short note on Filtre Ophics:	
	Fibre Optics is a medium of transmission of	
	tight information as light pulses along a long	
	distance of glass tuber fiber or plastic	
	wite. My Markey of Markey	
Market Commence		



to contain which our used by appropriate to calculate its own lacation. Uses: Such as marine to a weide range of applications for traceing purposes, mapping, etc. Q7a) Tsunami I surami are large ocean waves that can grow in size and reach share. It can cause major damage as they are very powerful and large waves capable sestroying cities and homes. Suma a, Indonesia was one of the most deliber nive trunami which occurred in 2004. Creneration of Tsunami: Tsurami is an underwater earthquake which occure when two techtonic plates shift and cause the scallow to move. This movement creates a large wave, called a seismic sea wave, which haves through a m at high speeds. As the waves approach the count, it begins to slow down and the heights of waves marcase creating a + sunamia.

Characteristics of Tsunami: Isonamis are characterise CO 1011019-? water waves that can range from ten minter to two hours Tsuramis can cause significant Organia to coastal community and intrastruct It can also cause estruction to coastal habitat and rarine life 3/5 Isumamis are Earth's most infrequent hazard that cannot be predicted (no season for tsonamis). b) Earthquake: Earthquake is a sudden and rapid shaking of ground caused by movement of tectonic plates. Earthquaker occur when there is a velease of evergy stored in Earth's crust. These waves can often result in violent Sharing that can cause dannerge and destruction to human life and infrastructure. Kichter Scale: are used to measure the magnitude of earthquarter. It is a Lograt & logarithmic scale measuring from value to to 0 to 10 on basis of the intensity of shocks.

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Magnitude of	Description	Effects of the
Richter Scale		Earthquake
and the second s		re frank in l
Less than 2.0	Micro-	The earthquake is
	earthqualee	not felt.
	LATE OF THE STATE	O .
2.0 to 3.9	Millor -	Normarly felt and
	Carthquake	re ded with rare
		occurance of damage
4.0 +04.9	light	Often felt out doors
100000	earthqualee	with straling of
	Jargack C	items
0 2 1 0 2		
5.0405.9		major damage caused
	earthqualee	
	0.	buildigs
6.0 to 6.9	Shone	very distructive
	lastiquale	
	1	magnitude of anea
70170	DA .	
7.0.407.9	Major	Soss Severe
W. Bart	earthquala	3
8.01.0	C. C. 1	Ornalabia
8.0409	Creat	Devastation in
	earthquale	
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		of damenge.
	11-	the balling to the control of the second sec
	1 10000	

consists of two hydrogen and one oxygen atom. The bond is formed by overlap of oxygen's and hydrogen atoms The water has a bent shape between hydrogen atoms due to prese a of unshared election pairs on the oxygen oxygen.

b) Gamma Rays:

Gamma rays are type of electromagnetic radiation with highest energy and shortest wavelength. Gamma radiation has high levels of ionizing meaning they have the ability to strip electrons from atoms and molecules. It is produced in the decay recertain subatomic particles as in the disintegration of radiochine atomic achieves.

Application of Gamma Rays

Medical:

It is used in concer treatment through radiation theraphy? Moreover, they are also used to sterilize medical equipment.

Industrial:

It is used to inspect gue any and thickness of materials such as metal and plastic to detect cracks and defects.

	13)
	Nuclear:
2	It is used in the development of bombs and nuclear reactors
	Conclusion:
H	It is important to se that gamones
To a	should be taken to limit exposures
Q	19a) Importance of presarvatives and antioxidant
	in food.
3	Answer
4.	Presarvatives:
	Substances used to preserve food from getting spoiled by bacteria, tune mould, etc.
Section 200	Example:
	Tetracycline is an antibrotic upd to prevent the growth of harmful bacteria in
	poultry, fish and canned food.
	Importance of Presarvatives:
	They add variety to food those as with presarratives scarpnal truit is available
	throughout the year.
	Moreover, it stabalises the priving of
41-	

Ty

food so there is no rick of food shortage Antioxidants: Antioxidants are substances added to food to prevent or slow down oxidation process which can caused food to slow to its nutritional value or spoil. Examples. Vitamins A, C and E, Citic acid and melatonin harmones are commonly used antioxidants in taily life 3.5/5Importance: They help beep the food fresh by slowing down the deterioration proce her exposed. food is able to keep it tente and vibrancy in colour if and ridants are used. It prevents food from rancidity and spokage increasing the lifespan of food b) Greenhouse effect, its relation to global warming comment if it is a blessing. Answey Greenhouse effect is a blessing as it makes the earth Warm enough to make

How it works
It is a process in which some gases like co,
trap the reat while it radiates back into
the atmosphere. The next is then released at
right time. Other than we greehouse effect,
eartie's atmosphere absorbs all been heat

(SUN)

Blessing or not?

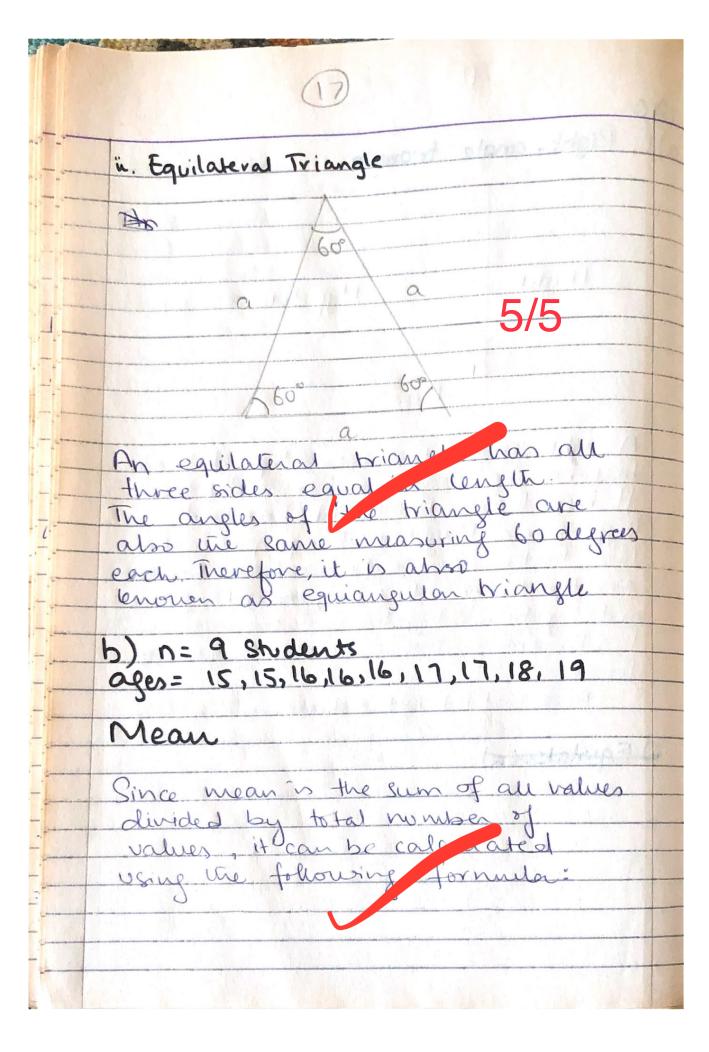
Earth

Enhanced greenhouse effects and station to global warming:

Enhanced greehouse effect is also known as climate change or global warming. This increased uniming happens due to increased level of carbon dioxide and other heat-abor one gones in satural green Such gases in use the earth's temperature from the natural greenhouse effects to enhances greehouse effects.

a)i. Right-angle triangle Height Hypotenuse Base A right angled triangle is a type of triangle that has one angle equal to 90 degrees.

If has three sides: height have and hypotenuse, Height in a perpendicular line to the line contains have Borse ais the bottom line adjoining height and hypotenuse. Hypotenuse is the longest line Hs area is measured using the following Area: I'v height x base. in) Equilatorial



(10) Mean = Sum of values total number of values = 15+15+16+16+16+17+17+18+19 = 149 = 16.55 years Median As median is the middle value of the arranged data it can be found using the following formula Median - n+1 The 5th value in the data is 16 Hence, Median = 16 years,

Mode in the data. It the date provided, 16 is used the most, three times mode = 16 years Range 5/5 Kange refers to the difference between maximum and minimum value of the data. In the given data, the largest value of is 19 and Lowest value is 15 Hence, Range = 19-15 Qua) i. To calculate how many stores the company has, one adds all Number of Stores = 3+15+26+20+16 = 80 Company serves 80 stores.

i. The most common distance of the is the one in which waxinum number of stores are present. Hence, the most common distance in 21 to 30 leilometers iii. There are 16 stores which are 41 km or more from the godown, 20 stores which are between 31 to 40 km from the godown from the table, it is not definite how many of those 20 stores are 35 km or more from the godown. However, it is certain treat there are more than 3 16 Stores that are 35 km or more from the godown. w. Total number of Stores = 80 Number of Stores 31 km or more from go down = 36 Amount in percentage = Given stures x100 total Stor 45% of stores are 31 km or more from

LILBON BULL



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(23)

b) Given data Friend = Ahmed, Ali, Akhar, Nasir. Shebaz Cities - V, W, X, Y, Z Transport = Bus, Train, Plance, Car, Bus Akbar went to 1 by can Aliwent to & by plane Nasir went tovia boat Shebaz went via train As there is no bus in W and person who went to X do not use boat, Ahmed travelled by his and went to city V or Z The person who were to city & used the plan 5/5