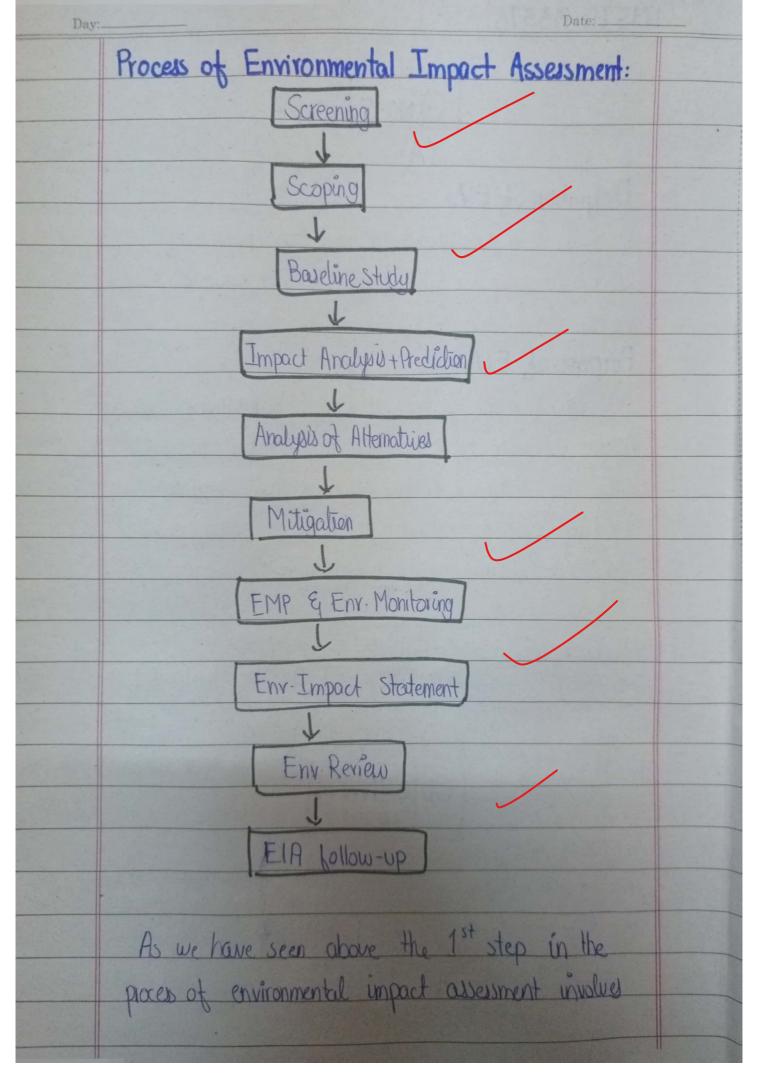
Batch : Isb OB - 61 Day: LMS ID: 33378 QNO.5 (A) Definition of EIA: It is a tool used to identify the environmental, social and economic impacts of a project prior to decision making. this is not a def Purpose of EIA: The primary purpose of EIA (Environmental Impact Assessment) is to encourage the consideration of the environmental issues in the planning and decision making and to utimately arrive at actions which are more environmentally compatible. To ensure environmental considerations are explicitly advessed and incorporated To protect the productivity into the decution marking process and capacity of natural systems and they ecological processes which maintain their function Protect human health Objective of and safety ELA To inform public . To promote development that about proposed projects is sustainable and optimized and activities resource we and management opportunities.







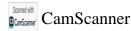
screening which determines whether environmental impact ascoment or initial environmental examination is required make heading offer the popoled poject each para Then comes the step of scoping which identifies the key concerns at an early age at look into the future aspects of the projects example what type of job arailabilities will it create what impact will it have on economy and what will be the benefit of this project. After that is the baseline study step which involves gathening detailed information of the site by doing frequent number of visits. Then the impact analysis and prediction of the pojed is done and the duration, timing, magnitude type and extent of the project is determined The alternatives for the project are found out to make the project environmentally sound, financially feasible During the step of mitigation the approach of Awid, Replace, Reduce, Restore and compensate is como out Then EMP is carried out to minimize any potential damage paid by the project. tollowing this an environmental impact statement is made which containeds summary, policy, description of environment and project, environmental

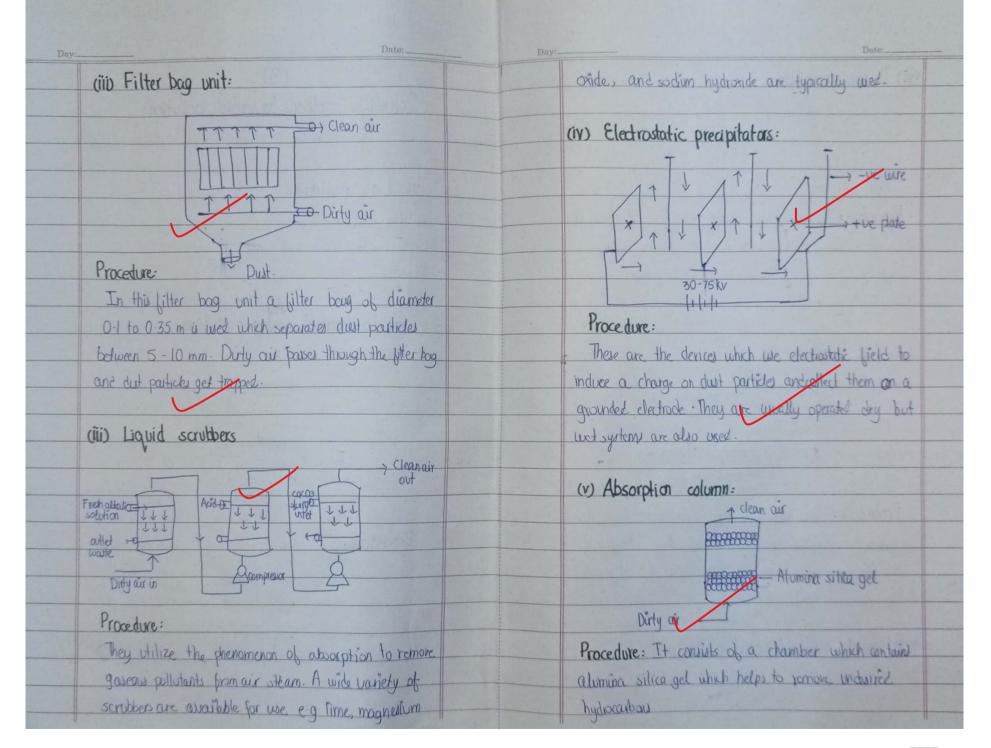


impacts and etc. At the end and environmental review is done to see if the terms and conditions finalized during the EIA pre implemented or not and frequent follow up usits are made to ensure this thing. Importance of EIA: O EIA identifies the potential effects of a project. @ It also predicts the severity of the effects on the environment. It provides an apportunity to madily project designs 3 It helps in controlling pollution of every type produced 9 by the pojects. 3 Helps reduce global warming and climate change It helps promote sustainable development. 6 It gives a chance to incolure potentially affected E communities and ask for their opinion It avoides violation of national and international standards 8 It minimizes use of resources and maintains biodiversity 0 hlith the help of EIA the performance of the project (10) enhances It helps in saving time and cost of the project. 1



(B)Scientific methods to control pollution: There are various scientific ways to control pollution is an efficient waylypes of pollution. 1) Air pollution 2 Water pollution 3 Solid pollution => hlays to control water pollution: O Cyclone separator: clean gas out Dirty gas in Dust Procedure: In this cyclone separator the large dut particles accelerate towards the wall and more downwards where the go out as dust. This procedure is used to separate clust particles which are 7 10mm. The cyclone rotates at a speed of 16m/s.







(vi) Thermal precipitator:

Dity air Procedure: This chamber consists of different thamber zones each having different temperatures with each increasing temperature the density decreases and fine particles separate from air

ty

+3

> Clean air

(vii) Cold chamber:

5-10°C Dirty air Liquid settle

Procedure: This chamber used low temperatures to separate the pollutant particles for all. The volatile gas get liquified at this temperature and get separated from air.

=> Ways to control solid pollution:

• Composting : It i microbiological biodegradation ob organic matter via epolic or anenobic conditions. This process is most applies for readily biodegradable solids such as sledge, paper etc. @ Incineration: In this process solid are burned in large fornaces thereby reducing the volume of solid waster which enter landfill as well as reducing goundwater contamination. klays to control water pollution: O Physical treatment systems: Processes which rely on provide forces to help in remarkal de pollutants. These include screening, filtration, sedimentation. Screening and biltration wet to separate coarse welds (pm water. With sedimentation superided air particles are removed from water. @ Chemical treatment systems: Use chemical reactions to remove pollutants from water These processes are chemical pricipitation, absorption and disinfection processes. Chemical praipitation utilize the addition of chemicals to water to bring about proupation of displied solverts. The solid is then removed by process called filtration or sedimentation



(3) Biological water pollution control methods: Utilize biological activity to remore pollutants (pon water streams. These methods we for control of biodegreesble organic chemicals. These systems consists of microorganisms consulting mainly of bacteria convert carbanaceous mother. Two main types of microorganisms that are aerobic and ascerbic are used in treatment.

Q NO. 6

Biodiversity loss: Biodiversity loss refers to the decline or durappearance of biological directly which encomposes the variety of libe forms on Earth, including plants, animalis fingi, and the microsoganisme and the ecosystems they form. -> Causes of biological diversity loss: There are various forous which contribute to loss of biodiversity O Pollution: Various types of pollution that are air, water, soil contribute to biodiversity loss . With populated and the organism don't have a safe space to Cive, with water

pollution they don't have access to clean drinking

water and with soil pollution the food they eat i contaminated (2) Habitat lass: .It acus due to depositation, mining agriculture and industrial activities These activities deprive the organisms of their habital. 3 Fragmantation: Fragmentation is the turning of wild areas into shall lands for the purpose of ubanization () Hunting: Due to hunting of organisms specifically animals and plant for bood and melicinal use the verety of bibliversity is decreasing. (Over-exploitation of preffered species: The organisms which are more in use are arerly exploited without the thought of their conservation @ Climate change: Humans Ecosphern services Impacts and we charged -Imports-Biodiversity a imate charge Biogenic GHG emusion Ecosyptem Lunch Biogeochemical cycles



3 Natura disertes:

Notural diviters such as earthquades, floods, tomades and humicanes are also a big cause of biodiversity los-

Convention on Biodiversity

The convention of bidiventy ((BD) was signed on 5 June 1992 with 30 ratifications and effective from 5 June, 1993.

· Objectives:

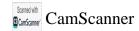
Focuse on conservation of biodiversity
Sustainable we of its components
Faix+ equitable sharing of benefits arising from utilization of genetic resource.
Key provisions:
Objectives (Art 1):
The article 1 dexribes the task objectives of the convention.
General measures for convervation and sustainable use (Art 6):
The article 6 dexribes the task objectives and have to integrate those national strategies and have and policies.
Technic Lication and monitoring (Art 7):

The article 11 describes components imp for contentation

and sustainable we. @ In-situ conservation (Art 8): For nuitu couchaban of species protochon areas along with restoration and rehability tion contras are made (3) Ex-situ conservation (Art 9): For ex-situ conjention outide notical habitute are made. D Incentive measures (Art 11): - Various kindob social and economic incentives are given to population for adaptation of preventive measures. (Research and educational training (Art 12): Various educational programmes and research sessions are given to train and educate people. B Public education and awareness (Ait 13): Public education and augures though media is given to conserve bischwity-() Exchang of information (Art 17): Exchange of information between countries is lone on various ways to protect and converve biodiversity -1 Financial mechanism (Art 21) A financial mechanism is set up ces Global environment Facility to provide for activities and projects regarding contantian and protection of pipelineuity



(8)	· Effects of Desertification:
• Devertification:	
It is a process by which bertile and becomes describe	Loss of A Climate change import-
typically as a result of various factors. It involves the	Vegetation Environmental los of whether habita
degradation of land in and, semiravid and dry sub-humid	Soll degradation effects law ob which he rabita
areas leading to a los of vegetation, soil pertility and	Incrased soil exprision
biodicesty-	
Came of desertification:	Food internity
O Climate change	Increased poverty
Reduced rainfall and higher temperatures exacely the	Social effects
dryig of soil and regetation lass-	hlater scarcity < Forced migration
3 Deborestatation:	
Cutting down tree and vegetation removes the land's	Reduced agricultural loss of livelihoods yield Francis allost that deput on agricult
natural protection making it prove to evolvin and I build	gield Economic effects bretty or animal
3 Overgrazing	Higher costs for himbanday-
Excessive avergrozing by livestack chamages regetation	for imports, neder and
cover, exparing soft to existin.	duiated relief
@ Unsustainable farming practices	Glotal effects
Over-altivation and improper inigation lead to soil	
legradation and sulinization	Impact on global bad Chinate beedback loop:
(Urbanization	security leading to devoce Devertification can use
Expansion of cities and infrastructure can contribute	tun excertaites desert



Jay:	
• UN convention on desertification:	
It is a multilateral treaty to combat description	ion
and mitigate effects of drought through effective actions a	t
all level supported by international cooperation and	1
partneuhip agreement-	
It was signed on 14 oct, 1994 and entired in	6
bre on 26 Dec 1996. Parkutan signed it on 15 oct 199	4.
> Structure:	
Its permanent sectances is at Bonn, Greenany until 2006	100
when it moved to UN. It also has a committee on scien	æ
and technology and a group of expect-	
-> Brieb ducription:	
It distinguishes between developing and developed carntres	1-
According to its Article 5 the affected developing part	lies
give importance to combat descriptications establish	
strategies to combat, acres causes of descriptication.	
Article 6 guides developed parties to support efforts of	
affected parties by providing financial assistance.	
-> Categorization according to regiond:	
I Abica	
I Asia	
III Latin America and Carribean	
IV North Meditetanean	
I Central and Eastern Europe	

-> Compliance mechanismu: O Article 9: Affected developing countries and parties member of RIA to prepare MAP to identify causing bodoes and describe practical measures to combat. It quides to do. communicate at COP at its report on implementation measures @ Article 27. COP empowered countries to consider and adopt procedures to resolve issues regarding implementation 3 Article 6(e): In this article developed parties are to bacilitate access of knowledge, technology to developing parties and place burden of finances on developed countries. Q NO.8 1) Cartegena Protocol on Biosafety It was signed on 15 May 2000 and became effective on 11 sep. 2003. Pakistan adopted it on Jun 200 · Objectives : Ensures protection while transfer, handling and we of LMO resulting from modern biotechnology.



Scope of Protocol:
 Appliés to tiansbunday morements, transit, handling
 Excludes aganimes modified through traditional breeding
 methods and living modified aganimes (LMO's) that are
 pharmacentical for humans -

· Compliance mechanism:

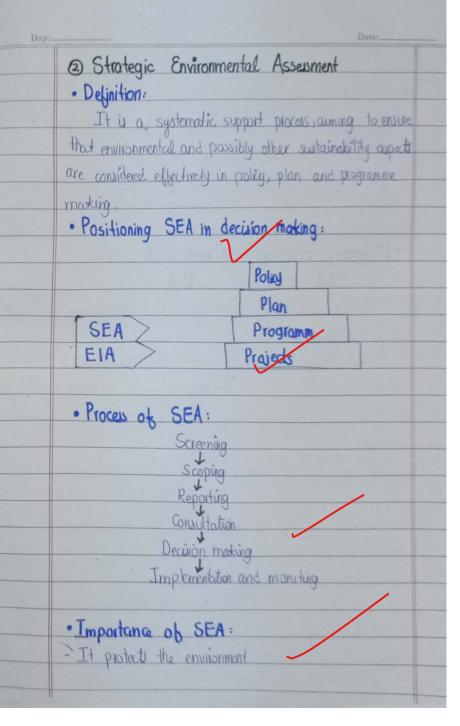
O Advanced information agreement procedures: Most strict are received for Genetically modified organism (GMO's) introduced intentially into the environment. Includes seeds slive fish and others having potential to grow and pass on their gener. It ensures importer company to assess risks before agreement. It is applicable to 1st movement for introduction to environment and not applicable to intransit or GMO's for use in lab.

System for agricultural commodities:

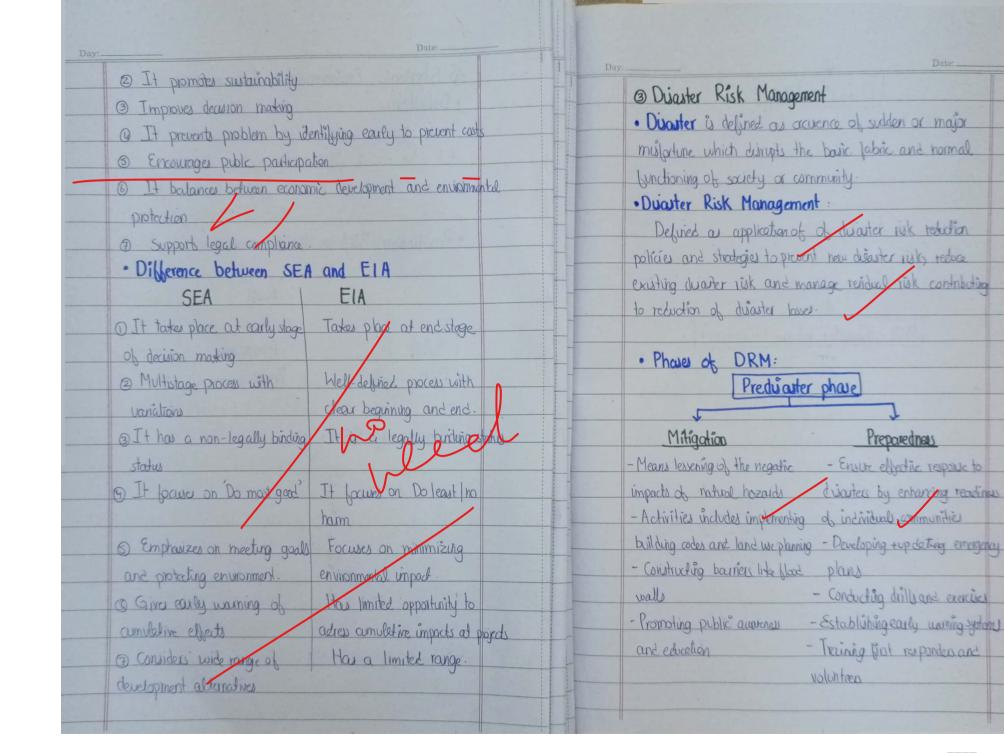
The largest shiftment containing GM corns soybean etc. for direct we Approving government use of commodifies and communicate decision to world through BCH and also provide detailed information of their decision.

3 Risk assessment:

It empower gout to decide to accept or reject GMO's based on risk assessment. It evaluates the potential adverse effects of GMD's on environment by conservation and sustainable we of biodiversity.









- Provides unmedicite avis tance during or immediately - Provides unmedicite avis tance during or immediately after a disarter to save lives - Activate emergency operations centres - Deploys search and sacunty teams - Provides medical care and sheltes - Distributes food successment.

Past-disaster phase (Reovery)

- Restore, rebuild and improve the conditions of alfeded community with emphasis to improve buther resilience - Rebuild infranticulur and having - Restore services like électricity, water and sanitation - Provides financial avisitance - Provides financial avisitance - Psychological and social support. - Promote economic recovery and devolopment - Learn to improve for future preparedness.

@ REDD+ · Definition : Defined as reduing emissions from deportation and porest degradation. · Gool: Its overall goal is to reduce bated emusion and enhance Carbon stocks in prest · Evolution of REDD+: 1988 1990 TPCC established) [1992] UNFCCC established LINFCCC enter Jorce 1995 -> [1997] kyoto piotase depred 2000 Marakesh accord [200] -2005 DOOS COP 11: -> 12007 Bali action Plan Kyoto protocol 2008 (-2010 -> Cancen agreement 1st commitment period begins 120127 + -> ROBI COP 19 1st commitment pened 2015 -> Parts agrees finances endfor REPD+ 2020



· Background:
It developed from proposal in 2005 by group of
contries led by Papua New Ginea calling themselves
Coalition for Rainforest Mations. Proposal was taken up
in COP 13 and COP 15. Coppenhagen accords in 2009
recognized crucial rule of REPP and agreed to establish
REDD+. In 2010 REPP became REDD+ in
accordance with canain agreement in COP 16.
· Phases of RED+
O Readiness: It designs strategies and action plan
with relevant stateholders and builds capacityfor
REDD+ implementation. Also voits on policies and measures.
2 Implementation It includes result barge demonstration
activities and require additional capacity building
and technology development
3 Result based actions:
It is implemented at national level and
results are fully measured, reported and verified.
well composed answers
there is clear of issue time management reduce the length of 1st ans part b
answers are fine and satisfactory

