Subjective part (B) Palusian is facing with deteriorated alyqualily. Explass the Phonomenon, effects and give appopulate measures. Introduction: Air Pollution The WHO defishes as pollution as the presence of materials in the asy in Such concentration while is harmful to man and his enviornment. Anong all other types of pollution. One is as pollution. It is hampersny the quality of life I Endividualsand rueix day to day activities are Empacted because of ass pollution. Phenomena of Air Pollution Followery poents will explain rue mechanism. 13 as pollution 2-1 Mcchanism AS is a dynamic System that absorbs pollu-Janes From Natural Sources and Manmade se latural sources: It Endudes forests, volcanges, wildfires, vegetation, wonds, storms etc 2 2-2-2/Arbjical/Man made Sources: Population exporsions, Endustralization, automobiles, urbanidation etc. Classification of Pollutants As provides a natural sissu for pollutants If pollulants enter at faster rate in any

these are accumulated mass and thus disturb the dynamic system of als. d. 3.1 According to oxigin It can be divided into two cargories Brimary pollutants Secondary pollutant Cos Noa, Soa, 02000, Smof , hydro carbons peroxy Acyl Nitrate 3.3. According to chemical composition: It can be divided into two categories Chemical Composition Organic pollutants Inorganic pollutant Hydrocarbons, Afdehydes, oxides of carbon, Kerones, Alconolett Nitrogen, Sulphur, Hydrogen, HN03 2.3.3 According to the State of Matter. It can be divided into two categories State of Matter Gascous pollutant Particulates THE GERM MINNEY Fine Colid dust-or asy and do not serble liquid droplets like Smoke, Jumes, 409, smog 2 prays erc.

3- Sources of dir Pollution:
Sources of all pollution can be broadly cargorized en trulo categories 3.1 Stationary Soveces: It can be divided into rever categories. Stationary sources poent sources Frantive sources Area sources Generated from Grenerated from Grenerated one fixed site From specific open aveas exposed toward e.g. roads areas e.g. en Power Plants. 3.2 Mobile Sources: It includes non-stationary sources such as automobiles, truchs, assisant etc. Mobile sources Burning Emissions Induspies Agriculturalt Fossifuel from automobiles normelel gares line activities rejeane CO, unburnt 60,503,NO Sprayey 01 (0) hydrocarbons, Waxs Hydrocarbons co, bec Nitrogen oxiderat bing mechicales Poisonous hold was and gases, burnene etc. Pestrade Nuclear mas emissions wood from active Usedcoal volcanoes, marsh and gas, spores of okur hels turgis pollenset

Effects of Air pollution: explain this in the context of paksitan As pollibrion has a megative impact on hamans and their envionment. abspollution exect freshing of soil CRMATE CHAY Ozone depletion mornee to Buds to amon animals It cause money suin diseases Also causy charen especially filling Dankening Carray mouse (or lood warming) Sono gard amate Mange Dannelto quantity Health anco no materials Marcark 1 JANA problems The areid DEC COUR Che masse of all e-a Askama amayon pollution (ODD) 6 to OVEYOU make a neat chart please this is too intermingled to Problems: The determinent and quality is causing various diseases to humans eg Astema, copo, pollen

According to all pollution and Asterna organization 40 percent or more than 40 percent are sufficiely from askina. 6.2 Acid Rain The asy pollutants when mixed with rash cause acid rain. It is destroying the enviormer Acid rain generally has 4.2-4.4 pHuhids is causing rusting of iron and also effecting feetility of soil 6.3 Gelobal warming Air Pollution is causing global warming. As the corbon dioxide and may other gassis are green house are preventing russe gares to escape rue apposphère. Results so global waring which is melting see glaciers and entrapment of heat an the atmospher Of Earth. According to Global climate Report 2023 2023 is tonfirmed as warmest calender year. The global average temperature of 14.98°C, 0.17°C higher than the previous highest annual value is 2016. Dame depletion Ozone depletion is occurring because of the as pollution. It is causing various diseases e-g shon concer. In 2023 Antarctic 02 one hole has had an expatic behaviour Inseptember 2023, it be came Sixter largest Ozone hole e ver observed. In Australia the shin disease is Prevalent

6.5 Green house effect: the green house gases are causing green house effects. They are extrapsry heat in the samosphere of earth Coursey global warning Cos is one of the leading contributor in the Green house effect. According to the Green house gas emission report appronimately 53.8 billion metric tons of con was recorded on 2022. 6.6 Damage to vegetation The as Pollution has resulted an acid rasn. It is impactery the festility of the Soil. 57 y of the habitate of world was covered by forest. Almost about 6 billion. Now only 4 billion are left. Appropriate Measures for contralling all pollution: Following are rue measures to be fallen for controlling the air pollution 7-1 Treatment of Industrial factory exhaust
There is a special technique done to freat the Industrial extraust Consists of various step. At the end all the understable hydrocarbon and gases would be separated. 7.2 Treatment of Automobile exhaust Following measures can be taken to do MUS 7.21 By maximizing use of unleaded feel

6 ans) Write short notes on any four of the a) lollowsy. 1' Food Insecurity: According to food and Agriculture organization
of the United Nations is that 66 A person is good Bisecure when they lack regular access to enough Safe and nurrious good for normal grow reand dévelopment. 3 Thère con be multiple reasons of food Busecurity that can vary from poverty envionmental degration, conflict and climate change. Major Reasons of food msewrity: Multiple reasons are sesponsible for food msecurity. Poverty Enviornmentat degradation Illemate change · Wars ox Conflicts lack of affordable housery Insonic health Condition · Racism and discrimmention. Effects of food insecurity: · physical health e Mental hearty Iwell-bessy chool and work

4.1 Prioritisation of food for public healths over Profits It is the standard development goal 12.1 to end hunger and ensure access by all people to safe, numinion and sufficent food all rue year round. agricultural mechanisation

agricultural mechanisation

agricultural mechanisation use of genetically modified seeds too There is need of modern advancement Pragricultural cector to encrease the production of food. 4.3 Reduce food waste and food loss: preventive measures need to be taken to reduce the food waste and food loss 4.4 Need to improve the economy Every state needs to work on its economy. to resolve rue issues of food Busecurity. Londusion: average ans 3/5 Food Precurity is one of the major issues that needs to be resolved by fairing are preventry measure to avoid food Buseauity

(2) Wettands

That is flooded or saturated by water either permanently or seemally? It is considered one of the most biologically diverse of all ecosystems, servery as a home to wide range of plant and animal species.

Characteristics of wetland:

Following are the charackristics of the

Area of land that is either covered with water or saturated with water.

meither totally dry land nor totally underwater.

The Saturation of wetland soil determines the vegetation that surrounds it. wetland plants are called hydrophytes.

Wetland enjoys In many kinds of climate

has various names? mires

Swamps & I I marsher

peatlands sloughs muskegs

tens

has sloughs muskegs

recological restoration is the process of ansisting the recovery of an ecosystem that has hereid graded, damaged or destroyed. How to restore ecology: Ecological restoration seems to Britiste or accelerate ecosystem recovery. Kestonetion practitioners donot corrytout the actual work of ecosystem recovery latter, they create the conditions needed for recovery so the plants and microorganism animals carry out the work of recovery The good of ecological rustoration is to veturna degraded elosystem to its historical trajectory not its historic conditions Ecological restoration is not suitable ton Conservation: Biodiversity can be restored But its
not a Substitute for conservation. In realty sestoration may not succeed in re-establishy me full assemblage of matrix species or ruefull as the original ecosystem structure &

10NECCC: UNFCCC stands for united Nations Frame work Convention on climate change The convention has near universal member-Ship (198 parties) and it is parent treaty 101 the 2015 panis Agreement Points: It was adopted in 1992 with the ultimate arm of preventing dangerous human enterference with climate system The 1997 Kyoto protocol and 2015 paris
Agreement build on the appreciation 2.2 Every year parties to the convention meet in Conference of the parties (Cops) as well as Entechnical meetings ruroughout the year. (Q3) Enviornmentalissues can be tacule d through enviornmental management and effective decision males Discuss 1- Enviornmental Management system (EMS) 14000 Introduction: An enviornmental management System helps organization identify, manage, monitor and control meix enviornmental Essues en a holistic

| | Date: |
|-----|--|
| | manner. |
| 1.2 | Tool for controlling the impacts of |
| | enviornment: |
| | Ems is a tool quaterables an against |
| | of any size or type to control rue supractor |
| | Its activities products or rue services on |
| | Rienatural énviornment. |
| | |
| 2 | General Characteristics of EMS: |
| | There are various co racteristics of EM |
| | Fini Splayer training plan with goals |
| | is the employee operates to |
| | pesiogENS Groals, methods |
| | and a time for |
| | Plan for Meetry enviornmental |
| | Periodic Chavackeristics requirements and |
| | auditing of EMS I voluntary undertains |
| | |
| | Corrective and procedures for |
| | prevenctive masstany appropriate |
| | actions Adefoned measures and downstall |
| | Structure and relating to ste soals. |
| | Rue responsibilities |
| | along with the |
| | availability of adequate |
| | resources paragrate |
| | |
| | |
| | |

Formation of EMS: Ems was formed by Iso in 1993, a technical Committee 207 on EMS to alvelop Enternational Stands for enviornmental management tooks and system. ISO 14001 EMS Standard: The key standard for EMS Emplementation and certification is ISO 14001 "Enviornmental management system It is an Internationally agreed Standard It helps the organization Emprove their environmental performance through more efficient use of resources and advantage and the trust of stake holders. Modung of EMS: Invermental Pelicy Planning implementation and operation Chedwing and corrective action Management Yeview

Diagrami [Planning) evaluation Check Imprement Needsand expectations of relevant Interested Parties Enviornmental Management approaches for tackling enviornmental problems: participatory approaches to Enviornment fal Management! 7.1.2 Ponticipation by feed back. Group discussion Public Debates merences Seminars MENKSWOPS Scientific cselvibition Mematic counts

Ponticipation by consultation Hims to supply and acquire unow redge 12 micromation op's for Shaterics Folo3 Participation by Negotiation Afmito reduce conflicts and to achieve a Componise Dialogue hetween two or more people or Participation by online Interaction Knowledge Shaning Socialmedia Wal Commication exchanging and sharing ideas Technological approaches to Enviornmental Management to dol Design for Disassemsly Sustable approach Lany to disaisemble and reagele dunte waste Mexic matural resources Knith I and fill

tiliz Manufactursy for enviornment Improve ecological performance Ussy cleaner technologies Hiplies efficiency production techniques Minimise wastage of squre supports/manufactures renewable sources Of energy to be utilized 7.2.3 [O tal Quality Enviornmental mayend Ecologically efficient turougli put systems minne wastas pollution control Industrial Ecosyslam Recycling Technological approach for Environmental 7.3.1 Air pollution Control Technique Aspecial Instrument that passes moya ten steps. Thus, separaty the hydrocarbons s so that air pollution can be lessened I. he) Drewention prevention must be done The best THE Lead be done.

we concept of yeigele con reduce the water Minimize rue landfill Brevenk air and land, water pollution It forvolves the conventional reuse. =34 Warte minimization waste minimisation should be done as much possible Conclusion: Follow Bry steps under enviornmental management System and Knogh debates and by creating Public automeness rue essonmenta protection can be done? and pollution control can also be done content is fine all ans are answers through the syllabus of the subject rest is satisfactory 12/20