C55-2022 The Threat of Global Warming and the Ways to Counter it 1- Introduction Thesis Statement Global warning is an envisonmental cata. strophe threatening the existence of life on the Earth by unleasting various envisonmental, socio-economic and political impacts. Therefore, there is dire need of adopting courter-measures to tackle this existential three 2-the Overview of Global Warming 3-Threatening Impacts of Global Warming i-Envisonmental Impacts of Global Warming ii-Looming Water Crisis iii - Social Impacts of Global Warning iv- Economic Impacts of Global Warning v- Political Impacts of Global Warning vi-Extinction of Life-Probable Outgome 4 - Adaptative and Mitigation Measure to Counter Global Warning i-Global issues need Global cooperation to "tackled 11- Assisting Developing Nation iii- Pre-emptive Adaptative Measures

in Reactive Adaptative Measures V-Source-Oriented Mitigation Measures vi-Effect-oriented Mitigation Measures 5- Global Warming and Pakistan 6- Conclusion Introduction The United Nations Sectoretary General Antonio que 's secent statement of entrance into an exa of global booking is a classion call to the entire humanity about the threatening impacts of global wowing Similarly his stateme -nt dwing his visit to the flood-inundated parts of Pakistan during July 2022 that this country is bearing the consequences of the global warming induced climate change testifies the global secentific consersus about global cowning as existential cross further Thus, there is no stance-8 about the life-threatening impacts of global warming among the world community except little skepticism Global warming is an envisonmental catastrophe and it mainly engenders

negative impacts on envison nt. Climate change is the major and foremost envisonmental impact, which results in a number devastating socio-economic, political life-threatening pacts The looming water crisis across the globe and accompanying envisonmental, socio-political and economic crises can better depict the threat to the life posed by the climate change induced by global warning. Therefore this global crisis needs to be tackled by adopting global action plan with major Joeus on assisting the disadvantaged developing nations more prone to the threats of global warning As the threats of global warming are already being unleashed; therefore adaptation needs to be prioritized Similarly, to reduce the intensity of global warming there is dire need of adopting mitigation measures. It courtermeasures are not prioritized, then there is no end-result of global warming, except the probable extinction of life from the Earth's surface. Global warming is essentially a sapid increase in Barth's temperature

due to ever-increasing emission of anthrop ogenic greenhouse gases, which block the outgoing surlight reflected to space. The growing industrialization to meet the emending needs of multiplying population of the world is the primary factor responds for the increased greenhouse gases emossion. As the level & carbondioxide, the most potent greenhouse gas, has cropped the 420 Part Per million (PPM) as compared to 280 PPM- the preindustrial level Similarly, the level & other green house gases like methane, nitrous oxides, carbonflours carbons (CFG) and sulphur oxides is also increas ing rapidly bypassing the pre-inclustrial level according to the data sevealed National Aeronautics and Space Administ (NASA) and Intergovernmental Panel on Climate Change (IPCC Resultantly, the global warming has been on the up track engendering various envisonmental threats of and climate change is the major one. Climate change in twon has been leading to various socioeconomic and political consequens for the world at large on one hard, while

the second rise in temperature and subsequent second sea level sise, alteration in globale wind and ocean circulation system, extreme weather events, rapid biodiversity loss and decreased water serources are the worth mentioning impacts threatening the life on the Earth Mexefore, the global warming has become major existential threat globally suspassing the existing I socio-political and Global warming is essentially the increased warming of environment; therefore it primarily threaters the environment Increased temperature changes the entire elements of envisonment like air pressure dir circulation pattern, humidity, precipitation pattern and the ocean circulation tattern Similarly, it also results in rising the sea level and exacerbates the drought and desertification further Resultantly, habitats have been declining; coastal zones have been submerging while living organisms especially humans have been confronting the infreased extreme weather events like heatwaves, Hoods

dxoughts, hussicanes and cyclones. These extreme events bring forth multiple renvisonmental challenges further, which threaten the natural resources in Marious ways. The most prone natural sesource to the envisonmental impacts of climate charge is tresh view ter sesources on the Earth Global warming seriously threatens the Freshwater reserves making water crisis an existential threat for many coultries Due to its threatening consequences, water crisis is considered as deciding factor for the twentyfisst century war. Global warming induced sapid glacial melt, decreased precipitation increased salinization of freshwater and declining water table are the factors responsible for making freshvater twenty first century's Il. Water insecurity is accompanied by foodinsecurity and there are 4.1 billion people in the world Jacing food insecurity according to world Good Brogsam's (WFP) latest report Similarly preshwater habitate have been divindling sapidly while green regetated lands have been transforming into desexted

dry lands. Therefore, looming water crisis hass been sesulting in a number of socio-economic and political exists for the world Global warning has been endengering in as number of threatening social impacts for the world eds global warning is sesulting in the submerging the fertile land under saline water, drowning the houses by flood, destroying infrastructure by either thurdenston or cyclone and windston consequently, food insecurity, huge capital loss, wremploymend and outbreak of epidemics have been tearing the social fabric apart and plse multiple social impacts to human beings. Presently, envisonmental refugees have become à resions issue suspassing the number of migrants due to other socio-economic and political factors. The floods in July 2022 in Pakistan led to displace more than 3 million people according to Economic Survey of Pakistan 2022-23. This number surpasses the registered Afghan refugees tiving in Pakistan due to conflict in Afghanistan Therefore, global warming seriously threaters the

Day: world socially and brings a number of related Conomic and political threats. Global warming has not only been increasing the economic burden of countries by posing a number of environmental and social threats but it has also been widening the existing economic inequalities and poverty levels A huge economic capital is required to cope with challenges unleashed by the global warming and ensure an frommy resilient to the threats of global washing. Intreased unemployment, reduced agricultural yield declining freshwater reserves, multiplying environmental refagees and increased share of envisonmental hazards in national buffets are the evident Jacks depicting the economic impacts of global warming. Economic Survey of Pakistan (ESP) 2022-23 seveals that Floods in July 2022 resulted in an economic lass of more Than 30 billion American dollars and the floods were the fegative outcome of the global warming. Therefore, global warming is responsible for multiple economic threats which in turn results in political repercussions for the will. Global warming has added additional aspect to global politics - climate politis. Therefore, the world-nations are at loggerheads in political battle to offset the challenges of global warring. Its the developed nations have responsible for the the global warming due to their unabetting emission of greenhouse gases by their advancing industrialization They also possess the carriety to cope with various socio-economic and frenvisonmental challenges of global warming. On other hands, developing nations have little responsibility For today's global warming while they lack the capacity to tackle its challenges and thus, they are more susceptible to calamities of global warming. Multiple agreements and transwork exist laying principles of ecoperation among nations and also assigning socio-economic sesponsibilities to the developed world to assist the less developed and developing nations. However, they fail to July:11 their due responsibilities. Therefore, such prevailing politics of non-cooperation

among the world have been widening the existing societeconomic and political fissures globally. The discussed threatening impacts of global warming imply that in the absence of eoutex-measures, the only probable Threat of global warming is the extinction of life. It has been resulting in the Earth to become uninhabitable for every living being. CAs humans have been confronting multiple socio-economic and envisonmental threats while one out of four species have been facing threat of extinction according to Living planet Index . Ecosystems have been disrupting while foodchains have been broken causing disturbance is prey-relationship and emergences of epilemics for both humans and plants and arimals- Small island developing countries like Maldires and Marshal Islands have been submerging due to sising sear wel. Similarly coastal zones housing more than one-third of population globally are inundating due to coastal degradation and increased extreme weather events. Therefore, wiping

out of life from the Earth's surface is destinad due to global warming if it is not courtered effectively in time. Global warming is a global catas. trophic issue and therefore, it needs global action plan to be tackled efficiently. As the world divided into multiple poles - one contributing to it, another doing refferts to mitigate and some sitting idly witnessing the destruction of planet cannot lead to to solve this global sue. There are many multitateral platforms like United Nations Franework on Climate Change (INFCC) Into govern mental Ramel on Climate Change (IPCC) which are aimed to streamline the global efforts. They have put multiple frameworks into action like Conference of Parties (cos) Kyoto Protocol which have unified the global actions against global wasming. Recent COP027 and COP28 in 2022 and 2023, respectively are the success stories which have instituted climate Danage fund first time. However, the developed and industrialized

nations are still reductant to share their responsibility by generous economic and technological contribution. Therefore, there is need of binding global climate action plan under the auspices of the United Nations which can institutionalized the global efforts to courter global warming in concrete way. As the industrialized world have been reating the faits of developingnt since long, but the developing nations are the worst victims of the development for bearing the brugh of the reonsequences of global warming. Therefore, assisting the former countries need to be privilized. They neither have the capacity to adapt to the adverse sepercussions nor have the economic and technological prowers to play sole in mitigate global warming. It is, therefore, required assistance for these countries from the multilateral fora and developed countries, as well in both economic and technological realms. B

A two-fold strategy is also the need of hour to tackle the looming consequences of global warming and also to seduce and offset the contributing greenhouse gases emission . As the "disastrous consequences of global warming are imminent on one hand while some faxe alreadyng happening on other hand herefore pre-emptive adaptative measures are required at first stage which ear help to offset the negative impacts of global warming-induced hazards. Migration of susceptible population, building resilient infrastructure, adopting resilient agriculture and water-efficient sops and plants are few effective pre-empfire adaptation strategies In order to cope with already urleashed disastroup consequences of global warming seartive adaptative measures are also needed. As huge population of the world have been Jacing various extreme weather events leading to their encomous

socioeconomic losses. LA & sisting the affectes economically, providing basic necessities and sehabilitating intrastructure are Jew adaxeactive adaptative measures which need to be taken in areas grappled with various climate thezards. However, besides adaptative measures way forward also include source-oriented and effect-oriented mitigation measures to courter global warning · Source - oriented mitigation measures fox global warming can help in reducing the greenhouse gases emission - major contributing factor to global warming. SAs these gases have already crossed the threshold limits in atmosphere siting to the highest levels historically. Therefore, their reduction by decreased consumption of fossil fuels, increased green cover and reduced carbon footprint are is the only option left. Transition to clean and green energy sources, population planning, carbon positing, evergy-

efficient machinery and behavorial change need to be prioritized globally to reduce the emission of greenhouse gases. Many countries have been actively doing efforts for transition to green energy, and adopting Clean and energy- efficient development policies The scientific evidences suggest That greenhous gases have surpassed their threshold Amets in atmosphere manifolds and therefore their sequesterization is viable option to sufeguard the Earth From their catastrophic impacts before the of twentyfixst certify. Increased green cover by afforestation and deforestation increase the natural carbon sinks and therefore, rapid plantation is one of the most eco-friendly solution for carbon sequesterization naturally. However more fast sequesterzation of Carbon

includes employing carbon capture and storage technologies, which capture and store carbondioxide in astificial sinks like xocks in the subsurface. This modern astificial carbon sequesterization is undorway in many developed courtries Similarly, there is need of cooperation to promote this technology across the world to safeguard the Earth from the threatening consequences of global warning. Pakistan, a developing country, contribute meagre amount of greenhouse gases, itself But it stands as fone of the worst victims of the latastropic impacts of global warm og. Rapid glacial melt and associated glacial lake outburst floods in its northern part encreasing drought, reducing agriculture yield in its centre while coastal degratation and increasing sea intrusion of the southern part of Pakistan are the clear evidences of hazards posed by global warning. Recent floods in July 2022 due to secord moonsoon precipitation further

affirms the catastrophic threats of global wasming to Pakistan To tackle with Sooming dangers of global wasning, Pakistan has formulated various climate-friendly palie measures like Climate Change Policy 2012 National water Policy 2018 and National Energy policy However, Similarly, at global level it has been advocating the case of developing world since long at various international Ja 9ts contributions in establishing world Climate Damage Fund at COP 28 were instrumental However it still needs to play significant sole to decarbonize its economy and safeguard its dwellers from the aftermaths of global In conclusion, it can be inferred that global warning is single existential threat to life on Earth. Its accompanying threats have been multiplying in frequency and intensity and engender various envisonmental, socis-economic and Political sepercussions. Therefore, to avoid the wiping out of life from the surface

of Earth, counter-strategy is the only viable option. An effective and consensus. based global action plan needs to be operationalized with major focus on the developing world. While adaptative measures accompanied by mitigation measures are also the need of the hour to efficiently reduce its threatening impacts and dechease the intensity of global warming. If countermeasures are not taken in time, then not only developing nations like Pakislan and least developed like Marshal Islando will be wiped out from the planet surface but also the developed world will face the destined fate of extinction Good Keep writing on different themes