	Mackecheme.
\bigcirc	a) made habitats anyides more pickes (ecological cale) and thus more constructives for multiple types of concerning to convert this had habitat diversity
\mathbf{O}	could increase competition where cally has a few would theive
	Good indease competition where only for a few woold initide.
	b) resiliency is the ability of a system to return to its initial state following a distuctopace.
	the more diverse / complex as anticident, the more certilizate as then are more interactions between complex.
	if a somic and which acades likelihed that gentles can realize them and date and sites
	it a species goes extinct, greater interinood indication species can replace them and take over niches.
	greater genetic diversity gives a population more chance of potential acception real action on change chear selection pressore y
(2)	Many passible answers, for: Protected areas can be established where development is Participenent of cities (courds late should first
E	Annual area to arrest adaptial impacts and also schoold thing to mitigate distuctional
	solocy are to uses polotelal impacts and plans shoold stride to mitrigate distorbance.
(3)	Advantages more some form. I increased and wield an effected and and the some of the shake the shake
U	Richardes. more crops / orea increased crop yield, more efficient management, less competition from other plants
	NISKS · possibility of engine crop being wiped our by disease or subord change in environment (floboling, drought, new predator). Can also read to
	nutrient depletion in soil, so more fertiliters are offen required.
	with a line is mixed a cost of a second and a second se
	" mitigation . mixed-approach where other crops planted alongside which can aid in nutrient cycling. More diversity in crops-
(4)	Free is to the high-high a state of the Nether of the second free state to a
\mathbf{O}	Fragments the habitat which can lead to declining populations and tacilitate extinctions.
	- smaller habitats could be insufficient for larger species or those that require ferritory or space to hunt
	- isolated patches reduce the potential of species dispersal.
	- coge effects more common where there is an increase in disturbance and predation
	- reduced ability to migrate
	- Incleased Chance of Numan disturbance (ex: poaching, car collision, etc.)
(5)	
U	Irees are first cut duwn "slash". Then the remaining biomass is left to dry and then burned to produce ash.
	Problems: nutrients typically depleted after a few years, leading to site being abandoned.
	makes area prone to soil crosion and accompanying landslides and floods of downstream water bodies
	loss of forest increases COz and less photosynthesis and combustion further Increases COz -> contributing to enhanced greenhouse effect
\mathbb{G}	Management of the second s
\bigcirc	Many possible answers. At individual level: reduce water use outside, pick up litter and pet waste, dispose of hazardous chemicals properly and not directly in drain
	At city level; barriers and tillers leading into/out of drains, waste pickup and proper disposal /recycle
\bigcirc	Plastics can take hundreds of years to breakdown. Most of it is not recycled and used only once leading to an exponential build-up overtime
	Solutions: Plasfics can be recycled to make other products (roads, clothes, shoes, furniture, etc.).
	Ocean filters and cleanup programmes
	Bacteria that con breakdown PET plastic. Could be used in landfills and recycling plants.
\bigcirc	
I	Humans have placed themselves at the top of food chains, thus highest level consumer (even above quatenary), leading to higher levels of pollutants.
	Humans are also long-lived, making bio accumulation possible in tissues like fat.
\bigcirc	
U	Mitigation: intervention to <u>reduce</u> anthropogenic climate change causes (reduce GHG emissions and increase GHG sinks)
	Adaptation: adjustment in systems to manage and lessen impacts of climate change
	Latter dentity leading lifeliture among lifeliture among
	1 reliverest areas business of local time power prints with (R. P.F.) 1 prevent definestation revital string it is deputied by provide equaling to the state of the string of the stri
	Protect + enhance Biomass Carbon capture Enhance COZ



Markscheme

(10) Many possible examples. Destruction of habitats, introduced species more common -> Reduction of apex predator -> top-down impact -> reduction of producers -> bottom - up impact

11) Many possible examples.

hunting : tigers, cheetahs, rhinos, pongolin, elephants, bonobos, giant pandas , gorillas, sea turtles, monk seals,

overfishing: sharks, bluefin tuna, atlantic cod, halibut, sturgeon, red snapper, salmon, sea scallops

invasive species: cane toad, emerald ash borer, zebra mussel, asian carp, water hyacinth, asian long-horned beetle, Kudzu, european starling, sea lamprey