

Human implications of Global Climate change

① Morbidity Increases morbidity and mortality.

Morbidity : Represents a diseased state caused by any stress.

Mortality : No. of deaths caused by these diseased states due to climate change.

* Cancer has highest mortality

{ Epidemiology - study of stage of a disease }
Here we consider both morbidity and mortality

⇒ There will be more temp. related morbidity due to global climate change.

Temp. related morbidities are - ~~Dehydration~~ ^{of cell} (most imp)

(i) Dehydration (of cell) - most imp. morbidity

(ii) Cardio-vascular illness increases - Causes thickening of blood, make O₂ carrying capacity lower, lead to blood clot.

Heart attack are more frequent in winter than in summer due to blood clotting which is caused by low temp.

^{co-ordination} ~~contact~~ b/w heart and brain is blocked due to blood clot (no blood supply to brain). It lead to faintness and ultimately death)

(iii) Extreme weather events increases the ~~no.~~ deaths and also pathology due to ^{spread of} infectious diseases.

(iv) Dislocation of people from their houses to rehabilitation centre and other ~~low~~ places which causes psychological trauma.

(v) Increase in vector borne diseases.

Kala-azar

Encephalitis (Japanese)

Plague

Dengue

Malaria

Because of high temp. and humidity, there is \uparrow in suitable habitats for these vectors, their reprod. and growth rate \uparrow and hence they can spread a particular disease, more than the normal condition.

NOTE: Malaria which has spreading ^{capacity} of 40% of world population and ^{now} spreaded ~~in~~ 55% of world population

② Damage public health infrastructure due to cyclone and hurricanes and floods. \downarrow (Hospital, primary health centre food cloth providers)

③ Social and mental health stress due to disasters mainly dislocation due to cyclones and flood.

Epicentres of cyclones are in oceans.

Storm surge - ~~to~~ Very high tides in sea epicentres where low pressure area develops. Now ^{from} surrounding high pressure area ~~move~~ air move to low pressure area and cyclone arises.

④ Communities are disintegrated.

unable to produce so qualitative fruits and other products. ~~It~~ When these are taken in diet, we get less nutrient from more amount of food.