

CLASS IX DISASTER MANAGEMENT UNIT V CHAPTER 3

MAN MADE DISASTER - NUCLEAR, BIOLOGICAL AND CHEMICAL

NOTES

- ➤ Some common man-made disasters are fires, traffic accidents, terrorist attacks, epidemic and pandemic like COVID-19.
- ➤ More dangerous man-made disasters are nuclear, biological e.g. Corona (SARS CoV-2) and chemical warfare weapons that are used in the time of war.
- NUCLEAR WEAPON Bombs or other warheads that derive their force from nuclear fission, nuclear fusion or both. Fission weapons are also known as **Atomic bombs** while fusion weapons are called **Hydrogen bombs**. It is delivered by an aircraft, missile or other system. The first Atom bomb was dropped on Hiroshima, Japan, by the USA on 6th August, 1945 during the World War II.
- ➤ BIOLOGICAL WEAPON Biological warfare agents include many bacteria which cause Anthrax, Brucellosis, Typhus, and viruses (Covid-19) that cause diseases such as Equine Encephalitis.
- > CHEMICAL WEAPON Chemical weapons include choking agents such as chlorine and phosgene, blood agents such as hydrogen cyanide which block red blood cells from taking up oxygen, blister agents like sulphur gas which burn and blister the skin, and nerve agents such as Tabun, Sarin, Soman etc.
- In the event of explosions, fires and chemical leaks occurring in industrial establishments, people are exposed to the following dangers:- (a) Heat waves, (b) Poisonous gas, (c) Low oxygen level, (d) Combustion of various products and heat waves, (e) Falling of structural elements, (f) Contamination of nearby environment.
