



SNS COLLEGE OF TECHNOLOGY

Vazhiampalayam, Coimbatore-35

(An Autonomous institution)

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Approved by **AICTE, New Delhi** & Affiliated to **Anna University, Chennai**



DEPARTMENT OF PHYSICS

COURSE NAME : 19HST102- ENVIRONMENTAL SCIENCE

I YEAR / II SEMESTER

UNIT : 3. ENVIRONMENTAL POLLUTION

TOPIC : 6. NUCLEAR HAZARDS/RADIOACTIVE POLLUTION



BRAINSTORMING WITH RECAP





INTRO



- Addition of unwanted natural or man made materials to the environment which causes dangerous effects to all living being





RADIATION



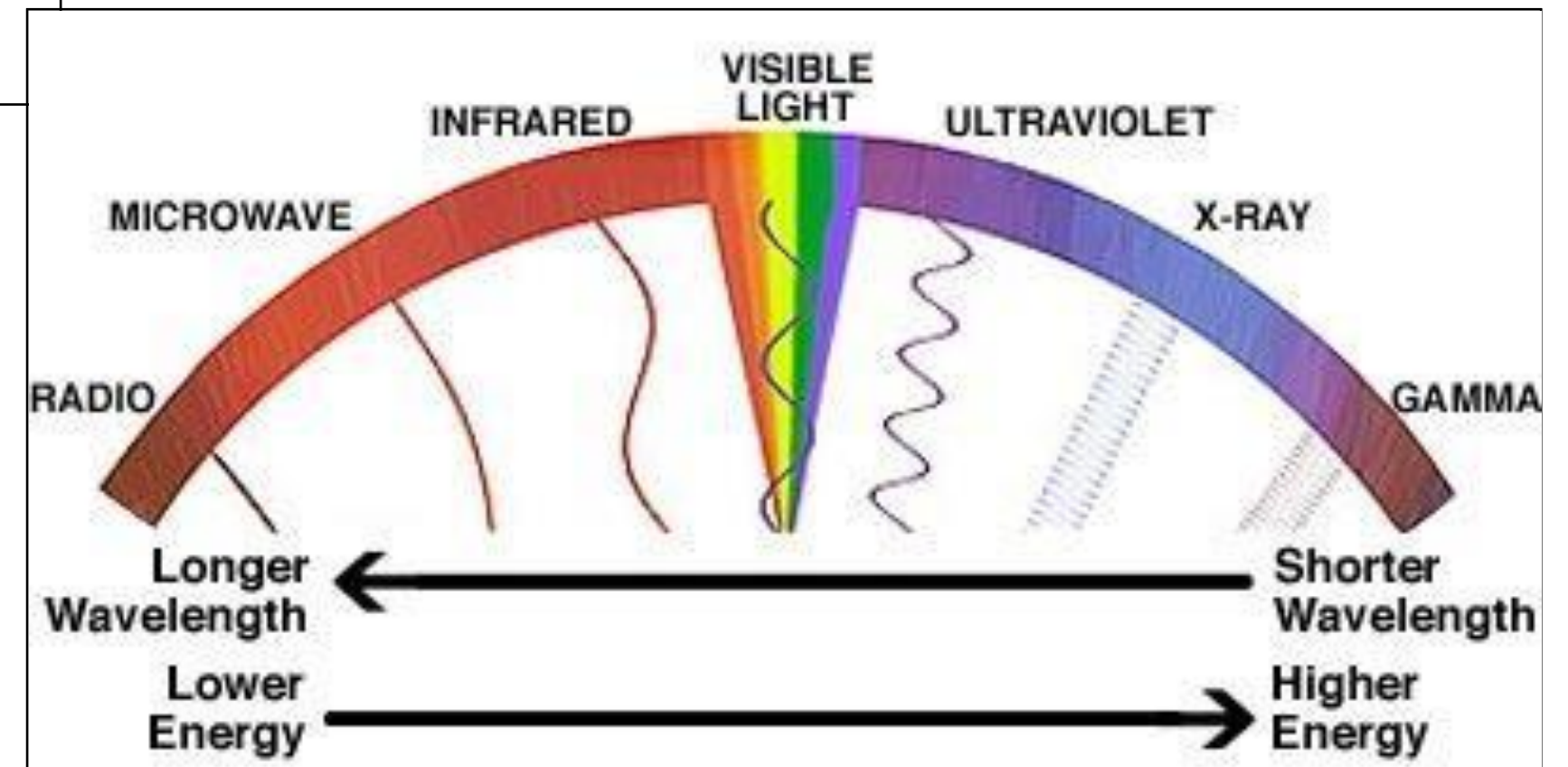
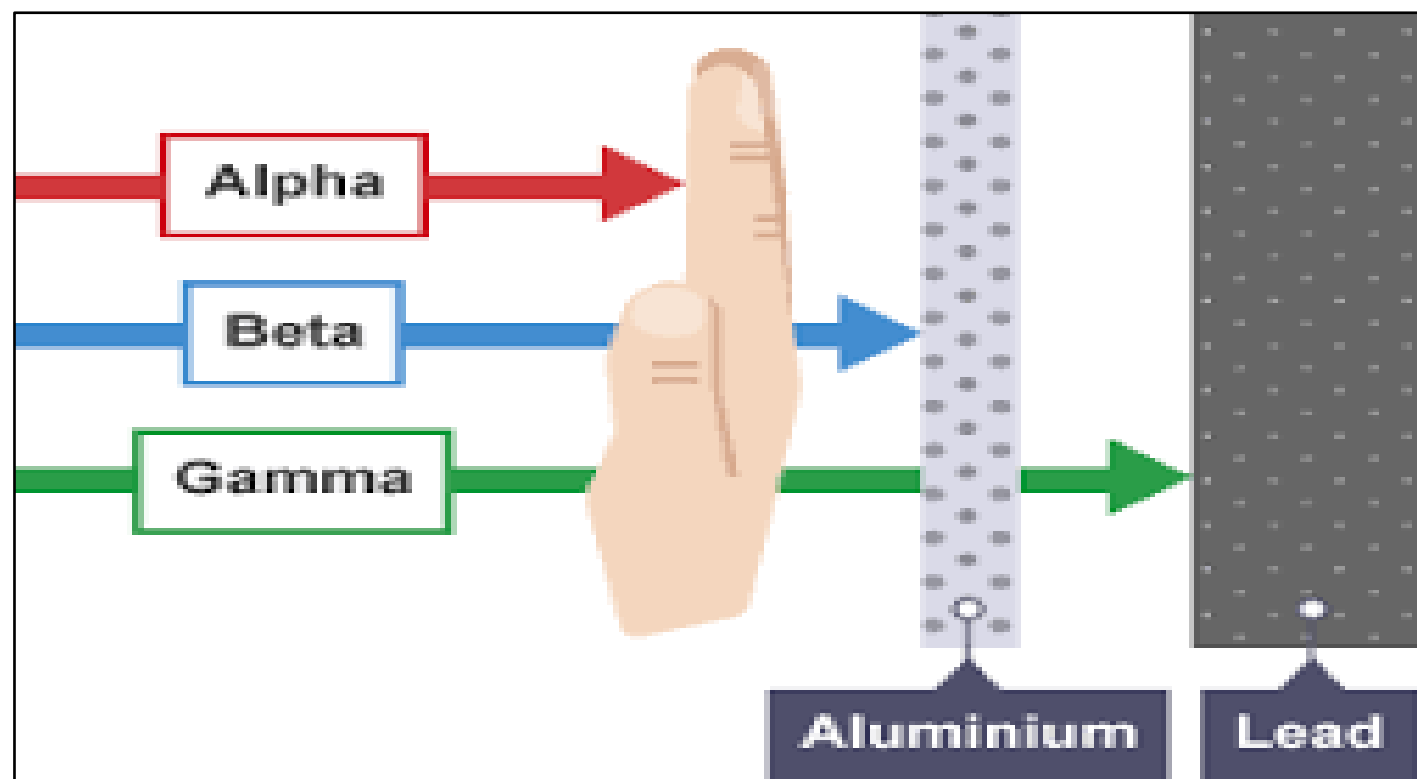
1. Ionizing radiation

alpha, beta & gamma rays which penetrate & affects severely



2. Non-Ionizing radiation

X-rays, UV which not penetrate but affects severely

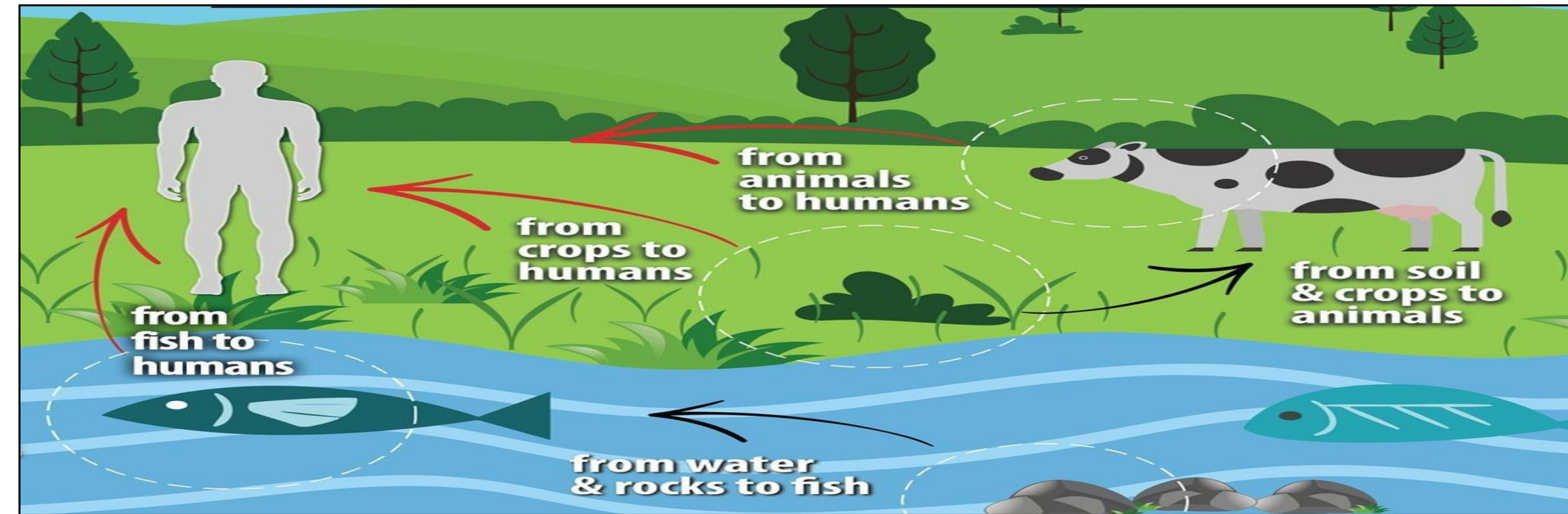




SOURCES



1. Natural sources
2. Man made





EFFECTS



1. Damage physiological & psychological health.
2. Genetic damage-birth defect
3. Mouth ulcer
4. Somatic damages
5. Affects waterbodies
6. Productivity loss
7. Severe depression
8. Panic attacks.

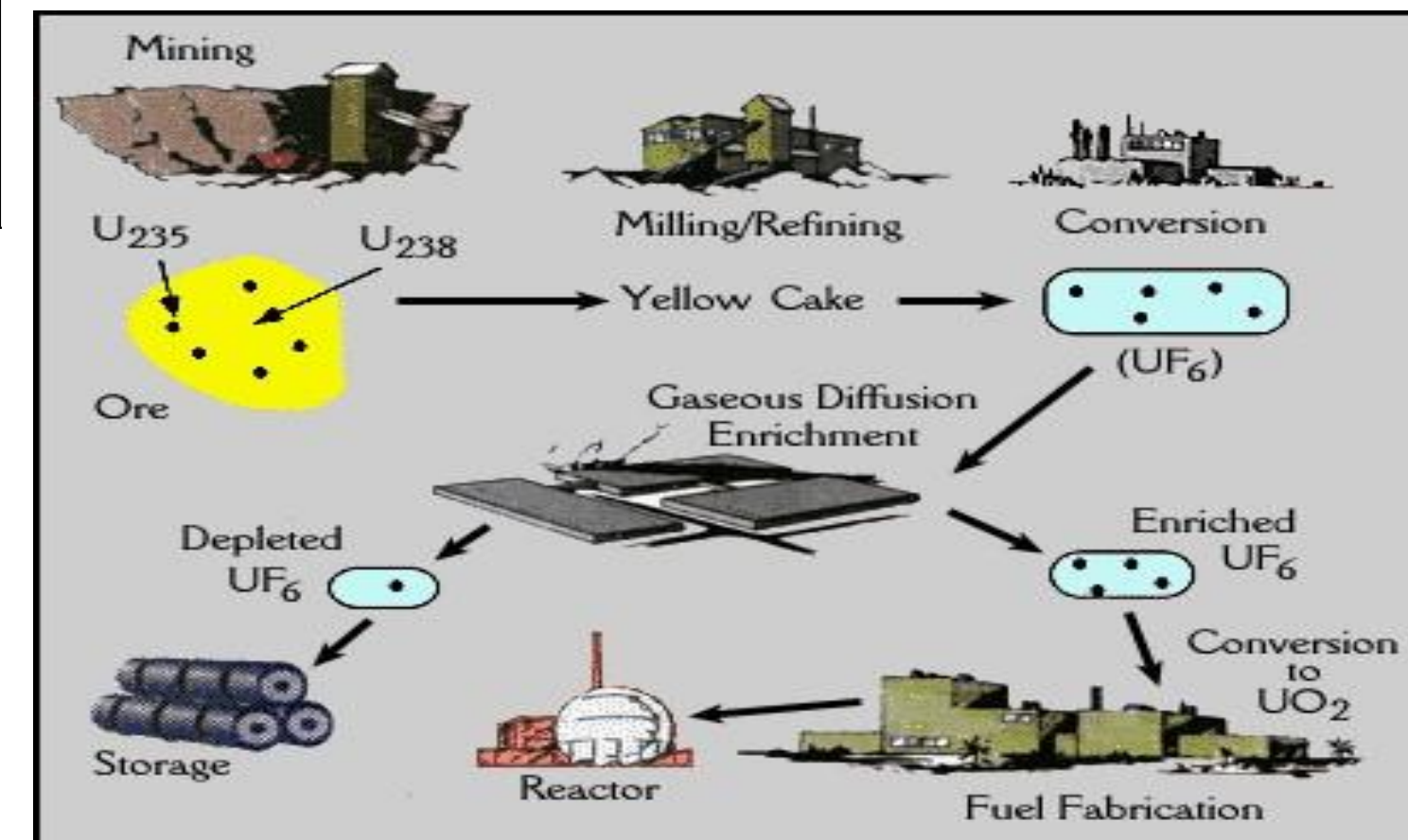
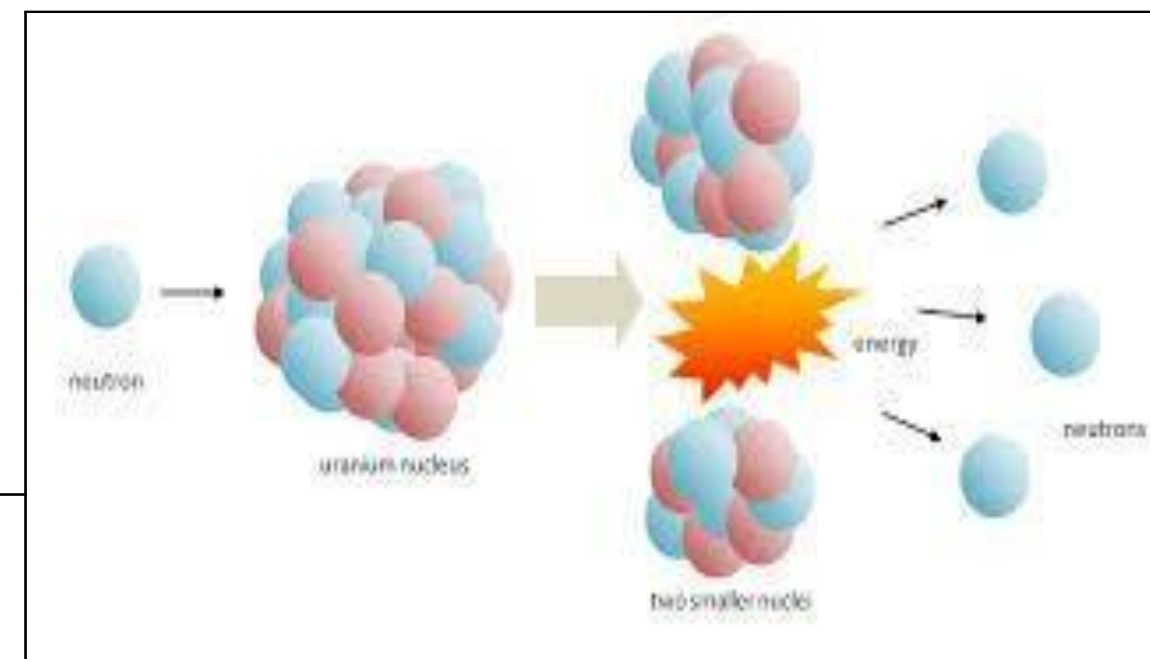




CONTROL MEASURES



- Nuclear devices never be exploded in air
- If extremely necessary, exploded underground
- Usages of isotopes should be minimized
- Less number of nuclear plant installation may be commissioned
- Fission reaction should be minimized
- Monitoring
- Disposal methods
- Safety measures





Activity



NUCLEAR HOLOCAUST



an act of mass destruction and loss of life (especially in war or by fire); Example: "a nuclear holocaust."

The word origin is originally from the Greek language, meaning "total destruction by fire."





ASSESSMENT



List out the various of Nuclear radiation



SUMMARY



REFERENCES



1. Dr. A.Ravikrishnan, Environmental science & Engineering” Srikrishna hitech Pub. Co. Ltd,2013.
2. G.Tayer Miller :Environmental Science”, Cenage Learning India Pvt Ltd, 2011.
3. Benny joseph, “Environmental science & engineering” Tata McGraw-Hill.Pub.Co.Ltd. New Delhi.2009.