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SUBJECT:- PHYSICS CLASS:- XTH DATE:23/05/XX

SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 3. SOURCES OF ENERGY

Nuclear Energy

Advantages:

- Can produce huge amount of electricity.
- 1 Kg Coal can light up 1 Bulb for 8 hours.
- 1 Kg Uranium can light up 1 Bulb for 3 x 10⁴ years.

Disadvantages:

- High set up cost.
- Chance of accident radiations emitted can cause huge loss to environment and civilization.
- Waste products are very harmful. Needs to be disposed carefully.

Environmental Consequences

- No source of energy is pollution free. It's good to use sources with less pollution.
- Burning fossil fuels causes air pollution.
- Vegetation submerged below hydropower dam leads to green house effect.
- CNG creates much lesser pollution than petrol and diesel.
- LPG is the best choice for cooking purpose because it releases more energy per unit mass, smokeless, does not cause air pollution and ash.

ASSIGNMENTS

- <u>1.</u> Which fuel is best suitable for cooking purposes & why?
- 2. Why nuclear fission reaction is known as chain reaction?3. What are the environmental consequences on burning fossil fuels?