

**VIDYA BHAVAN, BALIKA VIDYAPEETH**

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**SUBJECT:- PHYSICS**

**CLASS:- XTH**

**DATE:30/05/XX**

**SUBJECT TEACHER:- MR. NEEL NIRANJAN**

**CHAPTER 3. SOURCES OF ENERGY (NCERT QUESTIONS)**

**6.** How has the traditional use of wind and water energy been modified for our convenience?

**Ans.** (i) The traditional use of water energy has been modified and we have built dams, turbines and dynamos to generate electricity with the help of flow of water.

(ii) Wind; energy is used to rotate the wind mills, turbines and generate electricity by constructing wind fans.

**7.** What kind of mirror-concave, convex or plain-would be best suited for use in a solar cooker? Why?

**Ans.** Concave mirror would be best suited for use in solar cooker. As it is a converging mirror and would converge sun's heat radiation at one focused point.

**8.** What are the limitations of the energy that can be obtained from the oceans?

**Ans.** The limitations of ocean energy are:

(i) Few limited sites/places where this wave, tidal or ocean thermal energy can be obtained.

(ii) The cost of construction of plants is very; high

(iii) The efficiency of producing energy is also low

**9.** What is geothermal energy?

**Ans.** The heat energy obtained in the form of steam from under the earth's crust is called geothermal energy

**10.** What are the advantages of nuclear energy?

**Ans.** The advantages of nuclear energy are:

(i) A very small amount of radioactive material can produce large amount of energy which can be controlled and converted into usable form e.g., 1 kg Uranium = 25 thousand tones of coal.

(ii) It does not release any smoke or harmful gases in the air. Hence it can, curb the global warming that is caused due to green house effect