# Class 10 Science · Chapter 13: Our Environment

**Worksheet** · 20 marks · about 40 minutes · based on NCERT

Name _____ Class and section _____ Date _____

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**1.** About 50 000 J of sunlight falls on the leaves of a sugarcane crop in a day. The food energy the crop makes from it is closest to [1]

(a) 500 J (b) 5000 J
(c) 50 J (d) 50 000 J

**2.** A fallen log in the Western Ghats crumbles over a few years and disappears into the forest floor. The organisms chiefly responsible are [1]

(a) green algae (b) deer and wild boar
(c) fungi and bacteria (d) woodpeckers

**3.** On a rocky seashore in Ratnagiri, the organisms that make sugar from inorganic substances using sunlight are the [1]

(a) snails (b) crabs
(c) seaweeds (d) fungi growing on driftwood

**4.** In the sea food chain phytoplankton → zooplankton → sardine → tuna, the sardine occupies the [1]

(a) first trophic level (b) third trophic level
(c) second trophic level (d) fourth trophic level

**5.** When decomposers act on the dead leaves under a mango tree, the substances they return to the soil are [1]

(a) simple inorganic substances that plants take up again (b) complex organic compounds such as starch
(c) ozone and other gases (d) pesticide residues

**6.** Clay kulhads were once suggested in place of plastic cups for tea on trains. Why was making them on a large scale not considered a good answer? [2]

**7.** A Class 10 group visiting a school pond lists: sunlight, frogs, dissolved oxygen, water lilies. Sort these into biotic and abiotic components. [2]

**8.** Write the two steps by which ozone forms in the upper atmosphere, as equations, and state what the UV radiation does. [2]


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**9.** A buffalo eats fodder containing 6000 kJ of energy, but only about 600 kJ becomes part of its body. State three ways the remaining energy is used or lost. [3]

**10.** A municipal corporation must handle three kinds of waste: (i) leftover vegetables from a market, (ii) old newspapers and glass bottles, (iii) residue that can be neither composted nor recycled. Suggest a suitable method for each. [3]

**11.** Over thirty years, the waste collected from a town has doubled and much more of it is plastic. Give three changes in the way people live that account for this. [3]