

8. Industries – Distribution and Case Studies

Worksheet 1

(A) State the differences between the following:

1. Pig iron and wrought iron

2. Blast furnace and converter

3. Cotton and polyester

4. Hardware and software

(B) Describe the following:

1. The main inputs of the iron and steel industry.

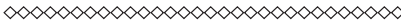
2. How steel is made.

3. Importance of Jamshedpur today.

4. The present condition of the cotton textile industry in Ahmedabad.

5. Bengaluru's IT scenario today.

ANSWERS TO WORKSHEET I



- A.
1. Melted iron is pig iron. When it is reheated to remove impurities, especially carbon, it gives wrought iron, which is tougher than cast iron.
 2. A blast furnace is used for smelting iron ore; the equipment that is used to transform iron into steel by removing impurities is called a converter.
 3. Cotton is a natural fibre and polyester is a man-made fibre.
 4. Computer machines are called hardware and the programmes used in them are called software.
- B.
1. The main inputs for the iron and steel industry are iron ore, limestone, coal, skilled and semi-skilled labour, a factory with machines, blast furnaces and infrastructure and a large amount of capital.
 2. Steel is made by heating pure iron in a blast furnace, removing impurities through a converter and adding controlled amounts of carbon and ferro-alloys [nickel, chromium, vanadium, etc.] according to the use for which steel is being made.
 3. Jamshedpur is not only the centre for the Tata Steel Plant, but also an important industrial centre and a centre for technical colleges and scientific research laboratories, especially in metallurgy.
 4. Today the cotton textile industry at Ahmedabad is suffering because of old, obsolete machinery, inadequate power supply and high labour costs; it needs upgradation of machines based on the latest technology.
 5. Today Bengaluru has headquarters and sub-offices of many multinational companies such as Hewlett-Packard, IBM, Siemens, Motorola, Compaq, etc., and about 2 lakh software professionals working there. It is now called the Silicon Valley of the East.

Worksheet 2

- (A) On a map of India, mark the major iron and steel plants.



