## Ch 6 - Manufacturing Industries

Answer the following briefly in not more than 30 words:

- 1. What is manufacturing?

  A Manufacturing is the process in which goods are produced in large quantities after processing the various now materials.
- 2. Name any three physical factor for the location of the industry.

  A Three physical factors for the location of the industry are:
- - Availability of raw material The location of industrial enterprises is sometimes determined simply by the location of the raw materials. The jute milk in West Bengal, sugar mills in Utter Pradesh, cotton textile mills in Maharashtra and Gujarat are connected close to the sources of raw materials.
  - Suitable climate Harsh climate is not much suitable for the establishment of inclustries. There can be no industrial development in an extremely hot, humid, dry or cold climate
  - Availability of water and power supply Many industries are established near rivers, canals and lakes Iron and steel industry, textile inclustries and chemical inclustries require large quantities of water for their proper functioning Coal, mineral sil and hydro-electricity are the three important conventional sources of power. Most of the inclustries tend to concentrate at the sources of power.
- 3. Name any three human factors for the location of industry.

## A Three human factors for the location of industry are:

Availability of cheap labour: 
Labour supply is more important in two respects:

(a) workers in large numbers are often required,

(b) people with a skill or technical expertise are needed.

- · Availability of services such as consultants and financial advice
  · Availability of Market The entire process of manufacturing

  is useless until the finished goods neach the market. Nearness
  to market is essential for quick disposal of manufactured goods.

  It helps in reducing the transport cost and enables the consumer
  to get things at cheaper sates.
- 4. What are basic industries? Give an example.
- A a Basic inclustries are those which supply their raw materials to inclustries which manufacture other goods.
  - b) And example is the iron and steal industry which supplies steel to the automobile industry.
  - 5. Name the important row materials used in the manufacturing of cement?
  - A The important raw motorials used in the manufacturing of cement are limestone, silica, alumina and gypsum.

Write the Answers to the following Questions in about 120 words:

4 What are integrated steel plants different from mini steel plants? What problems does the industry face? What recent developments have lad to rise in the production capacity?

A a) Integrated Steel Plants are large plants which handle everything in one complex - from putting together raw materials to steelmaking, solling and shaping.

Mini Steel Plants are smaller, have electric furnaces, we mainly steel scrap and sponge eron as inputs. They have see-solless that use steel ingots as well. They produce mild and alloy steel of given specifications.

## b) Problems of Steel Industry:

- · High costs and limited availability of coking coal.
- · Lower productivity of labour.
- · Irregular supply of power.
- · Poor infrastructure.
- in the production capacity:
  - · Liberalisation
  - · Foriegn Direct Investment (FDI) with the efforts of private entersprene entrepreneurs.
  - · Improvement in the production process by the use of newer technology.

2. How do industries pollute the environment?

A Industries are sesponsible for four types of pollution - air wates, Land and noise pollution. Following are the variouss reasons:

Air Pollution is caused by the presence of a high proportion of underirable gases, such as sulpher dioxide and carbon monoxide.

Water Pollution is caused by organic and inorganic industrial

wastes and effluent discharges into rivers.

Thermal Pollution of water occurs a lot when hot water from factories and thermal plants one drained into rivers and ponds before cooling. Wastes from nuclear plants causes cances birth defects and miscarriages. Pumping of wester especially, glass, harmful chemicals, industrial effluents, packaging, salts and other garbage senders the soil useless.

Noise Pollution is caused due to industrial and construction activities, factory equipment, generators, electricit saws,

drills and other machinery.

3. Discuss the steps to be taken to minimise environmental degradation by industry?

A: The steps to be taken to minimise envisonmental degradation by inclustry are:

To control water pollution, industrial effluents need to be traceted on all three levels (primary, tertiary, secondary):

a) Primary treatment by mechanical means. This involves screaning, grinding and floculation and sedimentation.

b) Secondary treatment biological processes.

c) Tertiary treatment by his logical processes chemical and physical processes. This involves recycling of waters.

- · The use of water for processing should be minimised via reuse and recycling; rainwales can be horvested to meet water requirements, and groundwater usage should be regulated by Jaw
- for minimisation of our pollution, smokestacles should be fitted to factories with electrostatic precipitators, fabric filters scruppers and inertial superators. Also smoke can be reduced by using oil or gas instead of coal.
  - · Noise pollution can be controlled by fitting generators with silencers, redusigning machinery to reduce noise, and using earphage and earphones herides other noise absorbing materials