*1. Read the text:*

**METAL-CASTING – A BASIC MANUFACTURING PROCESS**

One of the basic processes of the metal-working industry is the production of metal castings. A casting may be defined as “a metal object obtained by allowing molten metal to solidify in a mold”, the shape of the object being determined by the shape of the mold cavity. A foundry is a commercial establishment for producing castings.

Numerous methods have been developed through the ages for producing metal castings but the oldest method is that of making sand castings in the foundry. Primarily, work consists of melting metal in a furnace and pouring it into suitable sand molds where it solidifies and assumes the shape of the mold. Most castings serve as details or component parts of complex machines and products. In most cases they are used only when they are machined and finished to specified manufacturing tolerances providing easy and proper assembly of the product. At present the foundry industry is going through a process of rapid transformation, owing to modern development of new technological methods, new machines and new materials. Because of the fact that casting methods have advanced rapidly owing to the general mechanical progress of recent years there is today no comparison between the quality of castings, the complexity of the patterns produced and the speed of manufacture with the work of a few years ago.

*2. Translate the following words into Russian:*

|  |  |
| --- | --- |
| metal-working industrymetal castingmolten metalmold cavity | foundryfurnacesand castingto solidify |

*3. Find international words in the text, write them down and translate.*

*4. Answer the questions to the text:*

1. What is one of the basic processes of the metal-working industry? Give its definition.

2. What method for producing metal castings do you know?

3. What does the method of making sand castings consist of?

4. What are the functions of castings?

5. Owing to what is the foundry industry going through a process of rapid transformation?

6. What is the result of casting methods progress?

*5. Define the way of term formation:*

metal-working, melting, tolerance, complexity, cavity

6. Give definition of the following words, translate the whole definitions.

A casting is \_\_\_\_\_\_\_\_\_\_\_\_\_

A foundry is \_\_\_\_\_\_\_\_\_\_\_\_\_

*7. Find in the text the sentences with modal verbs. Write them down and translate.*

*8.*  *Find in the text the sentences with passive voice. Write them down and translate.*

*9. Find in the text infinitives. Write them down and define their form.*