

## SEPTIC TANKS

### 43.1. Vocabulary

*Ex. 1. Match the words with their Russian equivalents.*

1. pool	a. забиваться
2. pump	b. насос
3. maintenance	c. объем
4. break down	d. отстойник
5. saturate	e. жир
6. grease	f. превышать
7. limit	g. ломаться
8. scrap	h. испарение
9. back up	i. обслуживание
10. gallonage	j. насыщать
11. evaporation	k. предел
12. exceed	l. списанный

*Ex. 2. Complete the sentences with the given words.*

broke down, maintenance, pump, backs up, limit, saturated, pool, gallonage, grease, scrapped, exceed

If the septic tank \_\_\_\_\_ (1), it can cause sewage to overflow into your yard.

There is a \_\_\_\_\_ (2) to the amount of solid waste a septic tank can handle before it needs to be pumped.

The septic tank \_\_\_\_\_ (3) removes the liquid waste from the tank and sends it to the leach field.

The leach field should not be \_\_\_\_\_ (4) with wastewater, as this can cause soil contamination.

A septic tank that is beyond repair may be \_\_\_\_\_ (5) and replaced.

Regular \_\_\_\_\_ (6), including pumping, is crucial to keeping a septic tank functioning properly.

The septic tank acts as a \_\_\_\_\_ (7) where solid waste settles and is broken down.

The septic tank pump \_\_\_\_\_(8) and needs to be replaced.

The amount of waste entering the septic tank can \_\_\_\_\_(9) its capacity, leading to problems.

The septic tank's \_\_\_\_\_(10) determines how frequently it needs to be pumped.

Excessive \_\_\_\_\_(11) can accumulate in the septic tank and contribute to backups.

## **43.2. Reading**

### ***Ex. 1. Read the text.***

Septic tanks are essential for wastewater treatment in areas without access to public sewer systems. They are underground containers where solid waste settles and bacteria decompose organic matter. Here's a basic breakdown:

How it works: Wastewater flows into the tank, where heavier solids sink to the bottom forming sludge. Lighter materials like grease and oil float to the top forming scum. Anaerobic bacteria break down the organic matter in the sludge, producing biogas and wastewater that is lighter and less harmful.

Components: A septic tank is comprised of an inlet, outlet, and a baffle system that slows down the flow of wastewater and allows for proper sedimentation.

Maintenance: Regular maintenance is crucial. The tank should be pumped out every 3-5 years to remove accumulated sludge and scum. This ensures proper function and prevents overflows.

Advantages: Septic systems are efficient, environmentally friendly, and relatively low-maintenance. They offer a sustainable solution for wastewater treatment in areas without central sewer systems.

Challenges: Septic systems require careful monitoring and maintenance. Issues like blockage or malfunction can lead to environmental hazards.

### ***Ex. 2. Answer the questions.***

1. How do septic tanks treat wastewater in areas without public sewer systems?
2. What happens to heavier solids and lighter materials in a septic tank?

3. What role do anaerobic bacteria play in the decomposition process within a septic tank?
4. What are the main components of a septic tank?
5. Why is regular maintenance important for septic tanks?
6. What are some advantages of using septic systems for wastewater treatment?
7. What challenges are associated with septic systems that require careful monitoring and maintenance?

### **43.3. Communication**

*Ex. 1. Make questions using the following words.*

1. maintenance/function/properly
2. pump/septic/tank
3. grease/cause/break
4. limit/gallage/hold
5. roots/trees/saturate
6. evaporation/occur/time
7. scrap/solid/waste
8. exceed/capacity/important
9. pool/water/issue
10. flush/septic/tank

### **43.4. Writing**

*Ex. 1. Write a social media post explaining the importance of regular maintenance for septic tanks, using at least 3 of the target words.*