**AC motors and generators**

**Ex 1.**

Synchronous motors - синхронный двигатель

Fall out of step - выходить из строя

Frequency – частота

squirrel-cage – короткозамкнутый

capacitance - ёмкость

Rotating – вращающийся

Shaft – вал

Repulsion-induction motors – индукционные двигатели отталкивания

**Ex 2.**

1. A synchronous motor is a three-phase alternator, isn't it?

2. The constant speed of a synchronous motor is an advantage in some devices, isn't it?

3. The simplest of all electric motors is a short-circuited asynchronous motor used with three-phase power, isn't it?

4. If the rotor rotates at exactly the same speed as the magnetic field, then no currents will be induced in it, will they?

5. Single-phase squirrel-cage motors don't have much starting torque, do they?

6. Motors with serial winding and manifolds that will run on DC or AC are called universal motors, aren't they?

7. Most large electric generators are of the AC type, aren't they?

8. If the three armature windings are set at an angle of 120° to each other , the current will be generated as a triple wave, will it not?

9. The frequency of the current supplied by the alternator is equal to half the product of the number of poles and the number of revolutions of the armature per second, isn't it?

10. An AC generator differs from a DC generator in only two ways, doesn't it?