

Second Term English Exam

An electric steam boiler is a type of boiler where the steam is generated using electricity, rather than through the combustion of a fuel source. Such boilers are used to generate steam for process purposes in many locations, for example laundries, food processing factories and hospitals. Although they are more expensive to run than gas-fired or oil-fired boilers they are popular because of their simplicity and ease of use. Because of the large currents required, they are normally run from a three-phase electricity supply. They convert electrical energy into thermal energy with almost 100% efficiency but the overall thermal efficiency is variable, depending on the efficiency with which the electricity is generated.

The process of creating steam with an electric boiler is fairly simple. Electricity is run through a heating element that acts as a resistor to create heat through resistance. Water from the system or holding tank is then run over or near this hot element in a pipe or tank, heating the water to a suitable temperature, then making the water hot enough to boil and become saturated steam,^[1] at which point the saturated steam is transported to wherever it is needed via the steam pipes that exit the body of the electric boiler. Electric steam boilers work in a very similar way to fire heated boilers with the exception of what heats the water.

I- Reading comprehension:(6,5p)

A- Answer the following questions according to the text: (03p)

- 1) What is an electric steam boiler and where it can be useful?
.....
.....
- 2) Why the electric steam boiler is popular rather than gas-fired and oil-fired boilers?
.....
.....
- 3) How the process of creating steam with an electric steam boiler works?
.....
.....

B- Are the following statements true or false? Justify the false ones: (1,5p)

- 1) Electric steam boilers are cheaper to run than gas-fired or oil-fired boilers
.....
- 2) Electric steam boilers work in the same way to fire heated boilers with the exception of what heats the water
- 3) Electric steam boilers are popular because of their difficulty of use
.....

C- Find in the text words that are synonyms to the following (01p)

- 1- Appropriate=
- 2- sufficient =

D- Find in the text words that are opposite in meaning to the following(01p)

- Difficulty =/=2- different =/=

II- Mastery Of Language: (13.5pts)

1- Put in the correct phrases and form a conditional sentence (4pts)

- 1) If we meet at 9:30, we (to have) plenty of time
- 2) Lisa would find the milk if she..... (to look) in the fridge.
- 3) If Mel..... (to ask) her teacher, he'd have answered her questions.
- 4) Dan (to arrive) safe if he drove slowly.

2- Complete the sentences in reported speech.(4pts)

- 1) John said, "I love this town."
* John said.....
- 2) Do you like soccer? "He asked me.
* He asked me.....
- 3)"Be nice to your brother," he said.
* He asked.....
- 4)"where have you been?" he asked me.
* He wanted.....

3- Join the pairs of sentences with the linking words given (although, in spite of, due to, because.) (2pts)

- 1) The game was canceled. It was raining.
.....
- 2) The marks are high. The students' level is low.
.....
- 3) Samira was sad. She kept smiling and having fun
.....
- 4) We had to cancel the trip. My daughter's illness.
.....

III- Written Expression (3.5

- **Complete this paragraph with the appropriate word:
Steam- steam engine-to pass- water- converts-connectors-fueled**

The boiler is used to convert.....into..... Whenitfeed water into steam at 165°C, matching the maximum temperature of the..... Boilers have 2 water....., allowing themwater through to other adjacent equipment, but only 1 steam connector for output.

Good luck

3) "Be nice to your brother," he said.

* **He asked me to be nice to my brother**

4) "where have you been?" he asked me.

* **He wanted to know where I had been**

3- - **Join the pairs of sentences with the linking words given (although, in spite of, due to, because.) (0.5X4)**

1) The game was canceled. It was raining.

The game was concealed because it was raining

2) The marks are high. The students' level is low.

Although the marks are high, the students level is low

3) 3) Samira was sad. She kept smiling and having fun

In spite of Samira's sadness, she kept smiling and having fun

4) We had to cancel the trip. My daughter's illness.

We had to cancel the trip due to my daughter's illness

III- Written Expression (3.5)

The boiler is used to convert **water** into **steam**. When **fueled** it **converts** feed water into steam at 165°C, matching the maximum temperature of the **steam engine**. Boilers have 2 water **connectors**, allowing them **to pass** water through to other adjacent equipment, but only 1 steam connector for output.