

Interview Questions

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Congratulations – you have completed **Furnace Technology Online Test Set 1**.

You scored **2** points out of **10** points total.

Your answers are shown below:

1. In furnaces operating at very high temperature (say) 1250°C, e.g. soaking pit), the maximum heat transfer takes place by

- convection
- **can not be predicted**
- conduction
- radiation

2. Which of the following is a periodic furnace?

- Soaking pit
- **Reheating furnace**
- Rotary kiln
- Tunnel kiln

3. Which furnace employs natural draft ?

- Coke oven
- L.D. converter
- **Boiler**
- Rotary kilns

4. Test specimen for determination of refractoriness under load (RUL) of a refractory is heated in a

- furnace employing negative pressure
- **furnace employing neutral atmosphere**
- carbon resistance furnace
- reducing atmosphere

5. In a heating process, a heat flow diagram in which the quantities of heat in the various items of a heat balance are represented by the width of a band is called the

- Cox chart
- Sankey diagram
- **Ostwald chart**
- none of these

6. Dampers are located



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- near the top of the chimney
- after the I.D. fan
- **anywhere after the I.D. fan**
- before the I.D fan

7. Overall thermal efficiency of a lumpy coal fired suitably designed heating furnace, if operated & maintained properly may be about _____ percent

- **65-70**
- 25-30
- 10-15
- 45-50

8. Which of the following is a directly fired intermittent furnace ?

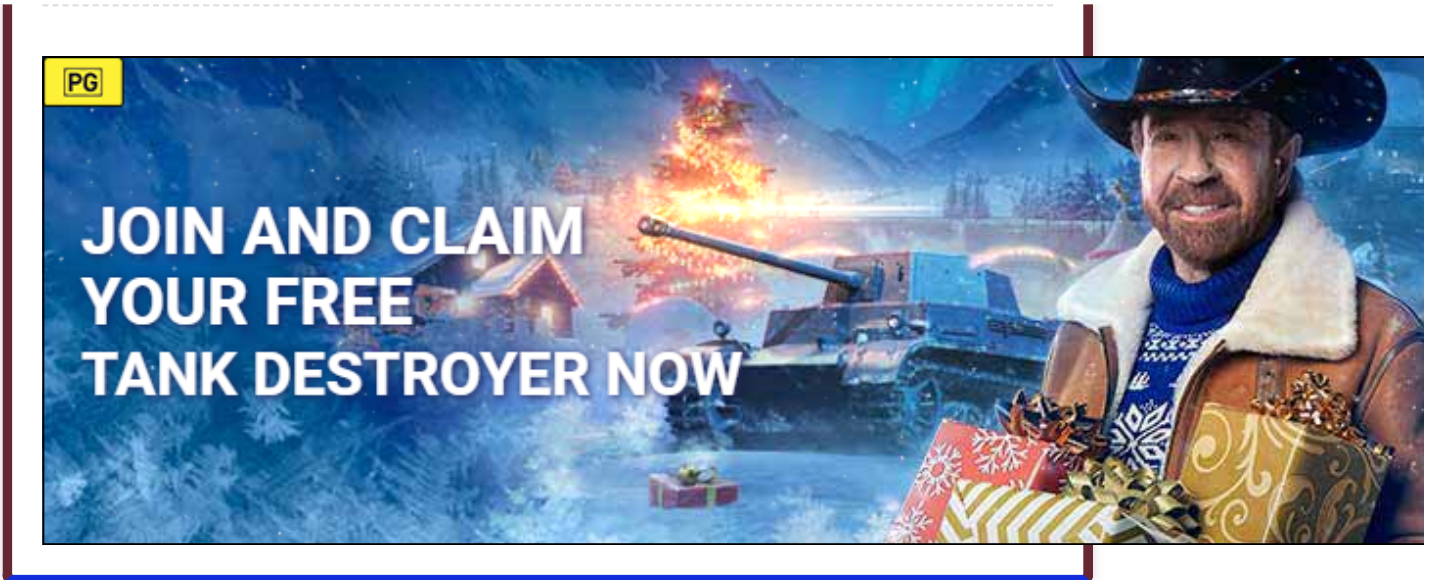
- Walking beam reheating furnace
- Tunnel kiln
- **Reverberatory furnace**
- Tower furnace

9. Which of the following is the most important deterrants to an extended use of pulverised coal in boiler firing ?

- Ash disposal problem
- **Erosion of induced draft fan blades**
- Excessive fly ash discharge from the stack
- Higher power consumption in its transportation

10. Which of the following furnaces will have maximum thermal efficiency ?

- Soaking pits
- **Boiler furnace**
- Walking beam reheating furnace
- Rotary kilns



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