

# Interview Questions

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## 40 TOP Heat Transfer Online Test – Multiple Choice Questions and Answers

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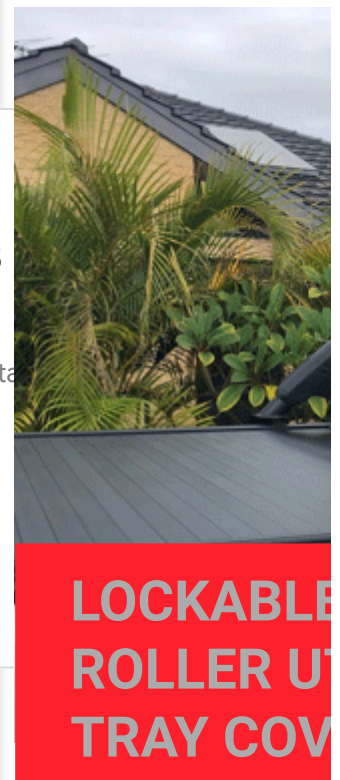
Congratulations – you have completed **Heat Transfer Online Test Set 1**.

You scored **4** points out of **10** points total.

Your answers are shown below:

1. Loss of heat from untagged steam pipe to the ambient air is by

- **radiation**
- conduction
- convection



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- all of above

2. At constant temperature, the thermal conductivities of gases \_\_\_\_\_ with rise in pressure

- increase
- **remain unchanged**
- may increase or decrease; depends on the pressure
- decrease

3. In an interphase heat transfer process, the equilibrium state corresponds to equality of temperature in the two phases, while the condition for equilibrium in an interphase mass transfer process is equality of

- activity co-efficients
- concentrations
- **chemical potentials**
- mass transfer co-efficients

4. Low thermal conductivity of heat insulating materials is due to its

- high specific heat
- dense structure
- **high proportion of air space**
- none of these

5. Value of Nusselt number  $[Nu = (hD/k)]$  for the heat transfer by conduction from a droplet or a spherical particle to a surrounding stagnant film is

- 0.5
- **2**
- 10
- 100

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6. Tubes are held between top and bottom tube sheets in Calenderia type evaporator by keeping

- both the tube sheets fixed
- both the tube sheets floating
- **the top tube sheet fixed and the bottom tube-sheet floating**
- the top tube sheet floating and bottom tube sheet fixed

7. Small scale evaporation is done in a

- condenser
- heat exchanger
- **steam jacketed kettle**
- multiple effect evaporator

8. Fruit juice (a heat sensitive material) can be concentrated in a \_\_\_\_\_ evaporator

- high pressure
- **falling film**
- long tube
- none of these

9. Heat transfer by conduction in the turbulent core of a fluid flowing through a heated pipe is negligible, if the value of Prandtl number is

- 0.2
- **0.4**
- 0.6
- 0.8

10. With increase in temperature, the total emissivity of conductors

- increases

- decreases
- **remains same**
- decreases linearly



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ONE THOUGHT ON “40 TOP HEAT TRANSFER ONLINE TEST –  
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**sabah**

[SEPTEMBER 14, 2016 AT 9:38 AM](#)

Very good

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