

[Chemical Engineering Heat Transfer Objective Questions & Answers Pdf](#)

Question: 1

Radiator of an automobile engine is a ____ type of heat exchanger.

- (A) cross-current
- (B) direct contact
- (C) counter-current
- (D) co-current

Ans: B

direct contact

Question: 2

In film type condensation over a vertical tube, local heat transfer coefficient is

- (A) independent of local film thickness
- (B) equal to local film thickness
- (C) directly proportional to local film thickness
- (D) inversely proportional to local film thickness

Ans: D

inversely proportional to local film thickness

Question: 3

Heat transfer occurs by natural convection because change in temperature causes difference in

- (A) heat capacity
- (B) thermal conductivity
- (C) density
- (D) viscosity

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Ans: C

density

Question: 4

The film thickness for laminar film condensation on vertical surface ____ from top to bottom.

- (A) remains constant
- (B) and the surface conductance increase
- (C) cumulatively decreases
- (D) cumulatively increases

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Ans: D

cumulatively increases

Question: 5

Maximum heat transfer rate is obtained in ____ flow.

- (A) transition region
- (B) creeping
- (C) laminar
- (D) turbulent

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Ans: D

turbulent

Question: 6

The main purpose of providing fins on heat transfer surface is to increase the

- (A) heat transfer co-efficient
- (B) heat transfer area
- (C) mechanical strength of the equipment
- (D) temperature gradient

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Ans: B

heat transfer area

Question: 7

For a body with very high thermal conductivity,

- (A) there will be no heat transfer at all
- (B) heat transfer will be very rapid
- (C) heat transfer will be very slow
- (D) none of these

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Ans: B

heat transfer will be very rapid

Question: 8

With an increases in the thickness of insulation around a circular pipe, heat loss to surroundings due to

- (A) convection and conduction increases
- (B) convection and conduction decreases
- (C) convection decreases, while that due to conduction increases
- (D) convection increases, while that due to conduction decreases

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Ans: D

convection increases, while that due to conduction decreases

Question: 9

With increase in temperature, the thermal conductivity of a gas

- (A) may increase or decrease depending on the type of gas
- (B) increases
- (C) decreases
- (D) remains same

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Ans: B

increases

Question: 10

Economy of a multiple effect evaporator is not influenced much by the

- (A) ratio of the weight of the thin liquor to thick liquor

(B) rate of heat transfer

(C) temperature of the feed

(D) boiling point elevations

Ans: D

boiling point elevations

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