

Unit 5 - Week 4

Course outline

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Refrigerants-1

Refrigerants-2

Vapor Absorption Systems-1

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Quiz : Assignment 4

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Assignment 4

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-08-28, 23:59 IST.

- 1) A good refrigerant should have 1 point
- very high normal boiling point
 - low latent heat of vaporization
 - high sensible heat capacity
 - high latent heat of vaporization

No, the answer is incorrect.
Score: 0

Accepted Answers:
high latent heat of vaporization

- 2) The main characteristic feature of air refrigeration system is that throughout the cycle the refrigerant remains in 1 point
- Gaseous state
 - Liquid state
 - Gaseous and liquid state
 - Super-cooled state

No, the answer is incorrect.
Score: 0

Accepted Answers:
Gaseous state

- 3) A vapour-absorption system works with temperature of generator (T_g) = 95°C, absorber temperature (T_a) = 35°C and evaporator temperature (T_e) = -10°C. COP of the system is 1 point
- 0.65
 - 0.75
 - 0.85
 - 0.95

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.95

- 4) If the temperature of evaporator is reduced to -20 °C find new temperature of generator in °C to avoid any change in the COP of the system 1 point
- 105
 - 110
 - 115
 - 120

No, the answer is incorrect.
Score: 0

Accepted Answers:
115

- 5) Refrigerants having a lower flammability limit of more than 0.10 kg/m³ @21°C and 101 kPa belongs to 1 point
- class 1
 - class 2
 - class 3
 - class 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
class 2

- 6) R-600a is also known as 1 point
- isobutane
 - air
 - ammonia
 - oxygen

No, the answer is incorrect.
Score: 0

Accepted Answers:
isobutane

- 7) In absorption refrigeration system there is not any 1 point
- evaporator
 - condenser
 - compressor
 - all of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
compressor

- 8) In water-LiBr absorption system the temperature of boiler should not exceed 120°C to avoid 1 point
- corrosion
 - decomposition of LiBr
 - overheating of system
 - all of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
corrosion

- 9) The COP of a vapor compression plant in comparison to vapor absorption plant is 1 point
- More
 - Less
 - Same
 - More/less depending on size of plant

No, the answer is incorrect.
Score: 0

Accepted Answers:
More

- 10) In aqua-ammonia and Lithium-bromide water absorption refrigeration systems, the refrigerants are respectively 1 point
- Ammonia and water
 - Ammonia and Li-Br
 - Water and water
 - Water and Li-Br

No, the answer is incorrect.
Score: 0

Accepted Answers:
Ammonia and water