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reviewer3@nptel.iitm.ac.in ▼

Courses » Upstream LNG Technology

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Unit 8 - Week 7

Course outline

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Lecture 42 :
Natural gas
Processing -
hydrate
removal

Lecture 43 :
Acid gas
removal in
natural gas
system - I

Lecture 44 :
Acid gas
removal in
natural gas
system - II

Lecture 45 :
Nitrogen
removal in

Week 7 Assignment 7

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-09-19, 23:59 IST.**

1) Which among the following is not a favorable condition for hydrate formation? **1 point**

- a) Low pressure
- b) Low temperature
- c) Presence of seed crystals
- d) Agitation

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) Low pressure

2) Addition of which of the following components raises the hydrate formation temperature **0 points**

- a) O_2
- b) N_2
- c) H_2
- d) CO_2

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) CO_2

3) Addition of which of the following components lowers the hydrate formation temperature **1 point**

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Lecture 47 :
Compression in
natural gas
systems

Lecture 48 :
Compressors
used in natural
gas systems

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c) N_2

d) BTEX

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) N_2

4) Which among the following processes is not used for nitrogen removal in a natural gas system **1 point**

a) Distillation

b) Absorption

c) Membrane separation

d) Cryogenic leaching

No, the answer is incorrect.

Score: 0

Accepted Answers:

d) *Cryogenic leaching*

5) Separation due to the difference in size of the components is discussed in which of the following adsorptive mechanisms **1 point**

a) Thermodynamic equilibrium mechanism

b) Steric mechanism

c) Kinetic mechanism

d) None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) *Steric mechanism*

6) Membranes used for the separation of nitrogen from natural gas loose it separation performance with time due to the swelling of the membrane polymer due to CO_2 , water and certain aromatic hydrocarbons. This phenomenon is called **1 point**

a) Cryogenic desublimation

b) Plasticization

c) Agglomeration

d) Priming

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) *Plasticization*

7) 7. Which of the following solvents is used for bulk removal of CO_2 from natural gas? **1 point**

a) Methylaldehyde

b) Methyl-diethanolamine

c) Methanol

d) Ethanol

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Methyldiethanolamine

8) Out of the following, which is not a physical solvent? **1 point**

- a) Selexol
- b) Amisol
- c) Rectisol
- d) Purisol

No, the answer is incorrect.

Score: 0

Accepted Answers:

b) Amisol

9) Which of the following compressor parameters does not affect overall efficiency of the compressor? **1 point**

- a) Suction pressure
- b) Speed of the compressor
- c) Delivery pressure
- d) Compression ratio

No, the answer is incorrect.

Score: 0

Accepted Answers:

c) Delivery pressure

10) Which of the following statements are correct about polytropic efficiency of compression **1 point**

- a) It is the ratio of the isentropic work to polytropic work.
- b) It is always greater than isentropic efficiency.
- c) It is always less than isentropic efficiency.
- d) It is the ratio of the polytropic work to isentropic work.

No, the answer is incorrect.

Score: 0

Accepted Answers:

a) It is the ratio of the isentropic work to polytropic work.

c) It is always less than isentropic efficiency.

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