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NPTEL

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Courses » Upstream LNG Technology

Announcements Course Ask a Question Progress Mentor FAQ

## Unit 1 - How to access the portal

### Course outline

#### How to access the portal

- How to access the home page?
- How to access the course page?
- How to access the MCQ, MSQ and Programming assignments?
- Quiz : Assignment 0

#### Week 1

#### Week 2

#### Week 3

#### Week 4

#### Week 5

#### Week 6

#### Week 7

#### Week 8

#### Week 9

#### Week 10

#### Week 11

#### Week 12

#### Download Videos

#### Assignment Solution

#### Interactive Session with Students

### Assignment 0

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

**Due on 2018-07-31, 23:59 IST.**

1) The major component in natural gas is 1 point

- a. Methane
- b. Ethane
- c. Benzene
- d. Butane

No, the answer is incorrect.

Score: 0

Accepted Answers:

a. Methane

2) The major component in petroleum gas is 1 point

- a. Toluene and Propane
- b. Propane and Butane
- c. Ethylene and Butane
- d. Toluene and Ethylene

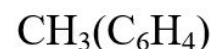
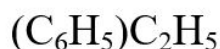
No, the answer is incorrect.

Score: 0

Accepted Answers:

b. Propane and Butane

3) Benzene, Toluene, Ethylbenzene and Xylene (BTEX) are found in natural gas. Identify the chemical formulae of these components from the following information: 1 point



(i)

(ii)

(iii)

(iv)

- a. (i=B) (ii=T) (iii=E) (iv=X)
- b. (i=T) (ii=E) (iii=B) (iv=X)
- c. (i=X) (ii=E) (iii=T) (iv=B)
- d. (i=E) (ii=T) (iii=X) (iv=B)

No, the answer is incorrect.

Score: 0

Accepted Answers:

b. (i=T) (ii=E) (iii=B) (iv=X)

4) If NaCl is added to ice, the melting point temperature of ice 1 point

- a. Increases
- b. Remains the same
- c. Decreases
- d. Increases and then decreases

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- a. 25 °C
- b. 125 °C
- c. 273 °C
- d. 100 °C

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. 100 °C

6) Leak of household LPG is detected by a foul smell. This is due to the presence of \_\_\_\_\_ in LPG. 1 point

- a. Hydrogen Sulfide
- b. Mercaptans
- c. Phosphine
- d. Hydrogen fluoride

No, the answer is incorrect.

Score: 0

Accepted Answers:

b. Mercaptans

7) Which among the following hydrocarbons is aliphatic? 1 point

- a. Benzene
- b. Toluene
- c. Anthracene
- d. Butane

No, the answer is incorrect.

Score: 0

Accepted Answers:

d. Butane

8) The number of moles contained in 100 kg of a gas, having molecular weight of 100 g/mol is 1 point

- a. 10 moles
- b.  $6.023 \times 10^{23}$  moles
- c. 1000 moles
- d. 1 mole

No, the answer is incorrect.

Score: 0

Accepted Answers:

c. 1000 moles

9) Find the approximate pressure exerted by 10 kg of a gas Q (molecular weight 18 g/mol), contained in a vessel of volume  $1 \text{ m}^3$  at 300 K. Assume that the gas obeys ideal gas law. 1 point

- a. 14 bar
- b. 2 bar
- c. 1 bar
- d. 127 bar

No, the answer is incorrect.

Score: 0

Accepted Answers:

a. 14 bar

10) Bar, atmosphere, mm of Hg, Pascal and torr are units of 1 point

- a. Pressure
- b. Work
- c. Temperature
- d. Volume

No, the answer is incorrect.

Score: 0

Accepted Answers:

a. Pressure

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