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Which of the following has maximum hydrogen/carbon ratio (by weight) ?

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- A. Naphtha
- B. Gasoline**
- C. Diesel
- D. Fuel oil

C_nH_{2n} is the general formula for _____ ?

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- A. Olefins
- B. Naphthenes
- C. Both A. and B.**
- D. Neither A. nor B.

Carbon percentage (by weight) in crude petroleum may be about _____ ?

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- A. 65
- B. 75
- C. 85**
- D. 95

In catalytic cracking, the _____ ?

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- A. Gasoline obtained has a very low octane number
- B. Pressure & temperature is very high
- C. Gasoline obtained has very high aromatic content**
- D. Gasoline obtained has very high amount of gum forming compounds

Pressure & temperature maintained in catalytic cracking is about _____ ?

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- A. 2 atm & 500°C**
- B. 10 atm & 500°C
- C. 30 atm & 200°C
- D. 50 atm & 750°C

Which of the following has the lowest cetane number ?

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- A. Aromatics**
- B. i-paraffins
- C. Naphthene
- D. Olefins

Liquefied Petroleum Gas (LPG) is mainly a mixture of _____?

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- A. Propane & butane
- B. Methane & ethane
- C. High boiling olefins
- D. High boiling naphthenes

The vacuum maintained in vacuum distillation unit for reduced crude is about _____ mm Hg?

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- A. 1.2
- B. 12
- C. 120
- D. 700

High aniline point of a petrofuel (say diesel) indicates that _____?

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- A. It is highly aromatic in nature
- B. It is highly paraffinic in nature
- C. It has a very low diesel index
- D. Its ignition quality is very poor

Which of the following is not an important property of fuel oil/furnace oil ?

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- A. Sulphur content
- B. Viscosity
- C. Aniline point
- D. Flash point

Vacuum maintained in the vacuum distillation tower of the crude distillation plant is about _____ mm Hg (absolute)?

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- A. 5-10
- B. 30-80
- C. 150-250
- D. 350-400

The most important property for a jet fuel is its _____?

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- A. Viscosity
- B. Freezing point
- C. Calorific value
- D. Flash point

Which of the following reactions is undesirable in the production of catalytically reformed gasoline ?

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- A. Dehydrogenation of Naphthene
- B. Dehydrogenation of lower paraffins**
- C. Dehydrocyclization of higher paraffins
- D. Isomerisation of paraffins

The best method of determining sulphur in crude oil is by the _____ method?

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- A. Kjeldahl
- B. Dumas
- C. Bomb calorimeter**
- D. Junkers calorimeter

Higher boiling fractions like atmospheric residue is distilled under vacuum at low temperature because at high temperature, there is a tendency of the predominance of _____?

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- A. Thermal cracking
- B. Gum formation
- C. Coking**
- D. Discoloration

Reforming converts _____?

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- A. Olefins into paraffins
- B. Naphthenes into aromatics**
- C. Naphthenes into olefins
- D. Naphthenes into paraffin

Which of the following has the minimum °API gravity of all ?

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- A. Diesel
- B. Kerosene
- C. Petrol
- D. Furnace oil**

Natural gas recovered along with crude oil from oil wells is called wet natural gas which has a higher _____ compared to the dry natural gas?

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- A. Unsaturated hydrocarbon content
- B. Calorific value**

- C. Quantity of propane
- D. Quantity of butane

Salt content (measured as sodium chloride) in electrically desalted crude oil comes down to a level of about _____ ptb (pounds per thousand barrel) ?

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- A. 0.03
- B. 3**
- C. 35
- D. 70

LPG stands for _____ ?

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- A. Liquid petroleum gas
- B. Liquefied petrol gas
- C. Liquid petrol gas
- D. Liquefied petroleum gas**

Char value of Kerosene is the amount of charred oil deposition on the wick obtained after burning it in a standard wick lamp at a standard rate for 24 hours. Char value of a good quality kerosene should be less than _____ mg/kg of kerosene?

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- A. 1
- B. 20**
- C. 100
- D. 500

Catalyst used in isomerisation process is _____ ?

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- A. H₂SO₄
- B. H₃PO₄
- C. HF
- D. AlCl₃**

Which of the following does not require preheating during storage in the storage tank as well as during atomisation through burners ?

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- A. PCM
- B. Tar
- C. Light diesel oil**
- D. Low viscosity furnace oil