Chemical Engineering Question Bank with Answers

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

(A) flash point

(B) aniline point

(C) viscosity

(D) sulphur content

[View Answer](https://meritnotes.com/engineering-questions/chemical-engineering-question-paper/1-78772/#collapseThree1)

Ans: B

aniline point

Question: 2

Catalytic cracking involves

(A) reactions chemistry of which still remain unknown

(B) reactions involves carbanions

(C) free radical chain reactions as in thermal cracking

(D) reactions involving carbocations

[View Answer](https://meritnotes.com/engineering-questions/chemical-engineering-question-paper/1-78772/#collapseThree2)

Ans: D

reactions involving carbocations

Question: 3

Main constituent of natural gas is

(A) C2H6

(B) C2H4

(C) C2H2

(D) CH4

[View Answer](https://meritnotes.com/engineering-questions/chemical-engineering-question-paper/1-78772/#collapseThree3)

Ans: D

CH4

Question: 4

Catalyst used in alkylation process is

(A) alumina

(B) silica gel

(C) nickel

(D) sulphuric acid

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Ans: D

sulphuric acid

Question: 5

The main purpose of recycling the byproduct hydrogen gas in the reformer reactor is to

(A) hydrogenate the feed stock

(B) sustain the reactor pressure

(C) maintain the reaction temperature

(D) obviate catalyst poisoning

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Ans: B

sustain the reactor pressure

Question: 6

In petroleum refining, catalytic reforming is used to convert

(A) light olefins to gasoline

(B) gas oil to diesel and gasoline

(C) paraffins to hydrogen and carbon monoxide

(D) paraffins and naphthenes to aromatics

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Ans: D

paraffins and naphthenes to aromatics/p>

Question: 7

Which of the following is the most suitable feed for plat forming process (reforming)

(A) olefinic hydrocarbon

(B) atmospheric residue

(C) naphtha

(D) fuel oil

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Ans: C

naphtha

Question: 8

In sweeting process, solutizer agent used with caustic alkali is

(A) phenol

(B) methanol

(C) potassium isobutyrate

(D) sodium plumbite

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Ans: C

potassium isobutyrate

Question: 9

Napththenes are the same as

(A) alkynes

(B) alkenes

(C) cycloalkanes

(D) branched alkanes

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Ans: C

cycloalkanes

Question: 10

High aniline point of diesel indicates that, it

(A) is highly aromatic

(B) has a low diesel index

(C) is highly paraffinic

(D) has a large ignition delay

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Ans: C

is highly paraffinic

Question: 11

Which of the following tests is not done for transformer oil?

(A) aniline point

(B) copper strip corrosion test

(C) dielectric strength

(D) flash point acid value

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Ans: A

aniline point

Question: 12

The most important for ethylene is the manufacture of

(A) polyethylene

(B) ethylene oxide

(C) vinyl chloride

(D) styrene

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Ans: A

polyethylene

Question: 13

Petroleum coke is used mainly in the

(A) blast furnace for reduction of iron ore

(B) manufacturing of carbon electrode

(C) sugar refining

(D) discoloration of yellow glycerine

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Ans: B

manufacturing of carbon electrode

Question: 14

Petrochemicals are chemicals

(A) added to gasoline and other fuels in order to improve their properties

(B) added to crude petroleum for processing before it is fed to the distillation column for refining

(C) used for tertiary oil recovery

(D) obtained from petroleum and natural gas and made on large scale

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Question: 15

Penetration test and softening point tests are important for the

(A) kerosene

(B) gasoline

(C) bitumen

(D) light gas oil

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Ans: C

bitumen