

- Q.26 Explain crystallization with diagram.
- Q.27 Difference between atmospheric distillation and vacuum distillation?
- Q.28 Explain the manufacturing of SSP with flowsheet.
- Q.29 Discuss reforming and its types.
- Q.30 Write about the filtration process with diagram.
- Q.31 Difference between pour and cloud point. and also write its significance?
- Q.32 Discuss about process of ammonium nitrate.
- Q.33 Write about aniline point and smoke point
- Q.34 Explain hot sulphuric acid polymerization
- Q.35 Difference between thermal reforming and catalytic reforming?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Describe the production of sugar with flow sheet, advantages and uses
- Q.37 Discuss the manufacturing of Urea with neat and clean flow sheet and also explain major engg problems.
- Q.38 Write short note on any three:-
- viscosity index
 - origin of petroleum
 - composition of cement
 - NPK

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4th Sem / P & P Subject:- Process Industries

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 What are the main macronutrients of fertilizers
- Nitrogen
 - Potassium
 - Phosphorus
 - All of above
- Q.2 The factors affecting sugar storage _____
- Temperature, Moisture
 - Light, Compression, Quality of sugar, Grain size
 - Both A & B
 - None of above
- Q.3 The formula to find API gravity?
- $(141.5/\text{specific gravity}) - 131.5$
 - $Re = \rho DV/\mu$
 - Mass/volume
 - None of above
- Q.4 What is the full form of DA.?
- Diammonium Process

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- b) Dielectric process
 - c) Department Process
 - d) None of above
- Q.5 Raw Materials Necessary for Portland cement is:-
- a) Calcium b) Silica
 - c) Alumina d) All of above
- Q.6 To find the flash and fire point, we use apparatus
- a) Pensky Martin apparatus
 - b) Clave land apparatus
 - c) Both A and B
 - d) None of above
- Q.7 Octane number is required for _____
- a) Diesel b) Gasoline
 - c) Both A & B d) None of above
- Q.8 The different operations of purification of juice process
- a) Filtration b) Settling process
 - c) Clarification d) All of above
- Q.9 The formula of CaO is
- a) Limestone b) Sand
 - c) Both A & B d) None of above
- Q.10 Craking types are
- a) thermal b) Catalytic
 - c) Fluidized d) All of above

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SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define bleaching.
- Q.12 Name any one petroleum industry
- Q.13 Define cement?
- Q.14 Name any one example of drying process.
- Q.15 Write formula of ammonia
- Q.16 What is fertilizer
- Q.17 Name any one type of cement
- Q.18 Write the formula of viscosity
- Q.19 Define dehydration?
- Q.20 Draw the diagram of setting process.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Difference between Octane number and Cetane number
- Q.22 Explain micronutrients with examples.
- Q.23 What is Pretreatment. Explain any two type of Pretreatment process for crude oil.
- Q.24 Write about the process of cement with raw material and flow sheet.
- Q.25 Describe about the process of Ammonia process with the help of suitable example.

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