

- 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:-
 a) viscosity index
 b) origin of petroleum
 c) composition of cement
 d) 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
 a) Nitrogen b) Potassium
 c) Phosphorus d) All of above
 Q.2 The factors affecting sugar storage _____
 a) Temperature, Moisture
 b) Light, Compression, Quality of sugar, Grain size
 c) Both A & B
 d) None of above
 Q.3 The formula to find API gravity?
 a) $(141.5/\text{specific gravity}) - 131.5$
 b) $\text{Re} = \rho DV/m$
 c) Mass/volume
 d) None of above
 Q.4 What is the full form of DA.?
 a) Diammonium Process

- 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** Cracking types are
 a) thermal b) Catalytic
 c) Fluidized d) All of above

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.