

- Q.28 Write about properties of petroleum products.
 Q.29 Explain about NPK with examples.
 Q.30 Explain the manufacturing of ammonia nitrate.
 Q.31 Difference between setting process and filtration.
 Q.32 Describe about Crystallization process with example.
 Q.33 With Flow sheet, discuss about the saponification.
 Q.34 Write about the Pretreatment of crude oil.
 Q.35 Discuss about sugar industry with the help of flow chart.

SECTION-D

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

- Q.36 Discuss the manufacturing of Urea with neat and clean flow sheet.
 Q.37 Explain the manufacturing of Portland cement with neat and clean flow sheet process and also explain major engg problems.
 Q.38 Write short note on any three:-
 a) Nitrogenous fertilizers
 b) Viscosity index.
 c) Topping
 d) Refining & distillation

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4th Sem / Chemical Engg. (P&P)

Subject:- Process Industries

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following is not a measure component necessarily to be present in fertilizers?
 a) Nitrogen b) Potassium
 c) Phosphorus d) Sulphur
- Q.2 The reaction is carried in small intervals in batch reactor.
 a) True b) False
- Q.3 LPG stands for
 a) Liquid petroleum gas
 b) Liquefied petrol gas
 c) Liquid petrol gas
 d) Liquefied petroleum gas
- Q.4 What is the percentage of cement produced in dry process?
 a) 80% b) 58%
 c) 75% d) 85%

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- Q.5 Bio-fertilizers are cheaper, renewable and pollution free. They improve the _____ of the soil.
- Nutrient supply
 - Texture
 - Water holding capacity
 - All (a) (b) & (c)
- Q.6 Which one mentioned below is not a raw material used in the Portland cement production?
- Clay
 - Limestone
 - Quicklime
 - Gypsum
- Q.7 Sour crude means the _____ bearing crude.
- Asphalt
 - Sulphur compounds
 - Wax
 - Nitrogen compounds
- Q.8 Indian oil has Refinery at:-
- Gujarat
 - Jamnagar
 - Panipat
 - None of above
- Q.9 How many types of Portland cement are there
- 4
 - 5
 - 3
 - None of the above
- Q.10 Urea is a better fertilizer than ammonium sulphate , because
- It is cheaper
 - Nitrogen content is higher
 - It is not poisonous
 - It is easy to manufacture

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SECTION-B

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

- Q.11 Draw the diagram of filtration.
- Q.12 Define Dehydration?
- Q.13 Write formula for Ammonia.
- Q.14 What is Molasses?
- Q.15 Write full form of ssp
- Q.16 Write formula of Viscosity.
- Q.17 Name any two nitrogen Fertilizer.
- Q.18 Define Hydrogenation?
- Q.19 What is micronutrients?
- Q.20 Defines Drying?

SECTION-C

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

- Q.21 Write about cracking, also explain its types.
- Q.22 With flow sheet, explain manufacturing of ammonia.
- Q.23 Write properties and uses of SSP.
- Q.24 Explain fractional distillation with its types.
- Q.25 Differentiate between organic acidity and Inorganic acidity?
- Q.26 Describe Cracking with its types.
- Q.27 Discuss the effect of catalyst.

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