

Q.22 What is desulphurization? Why it is used in petroleum industry?

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SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What is reforming? Describe the main types of reforming used by petroleum industry in detail?

Q.24 Describe the manufacturing process for production of portland cement in detail with the help of neat process flow diagram?

Q.25 Describe manufacture of ammonia in detail with the help of neat process flow sheet?

**3rd Sem / Branch : Chemical (Pulp & Paper)
Sub.: Process Industries**

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following is used as a bleaching agent in sugar industry?

- a) Lime
- b) Sulfur dioxide
- c) Carbon dioxide
- d) Phosphoric acid

Q.2 The main source of nitrogen for nitrogenous fertilizers is?

- a) Urea
- b) Animal waste
- c) Ammonia
- d) Potassium nitrate

Q.3 Potassium is used as fertilizer for which purpose?

- a) To develop stems and leaves
- b) To prevent disease
- c) To accelerate seeding
- d) For early stage of plant growth

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- Q.4 Which of the following is not an intermediate distillate product in petroleum refining?
- a) Heavy fuel oil b) Diesel oil
c) Gas oil d) Lubricating oil
- Q.5 What is the primary component of crude oil?
- a) Carbon b) Nitrogen
c) Oxygen d) Sulphur
- Q.6 What is released during the production of clinker?
- a) CaCO_3 b) CO
c) $\text{Ca}(\text{OH})_2$ d) CO_2

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 What is full form of VDU in context distillation?
- Q.8 Define cement?
- Q.9 What are molasses?
- Q.10 Write the chemical formula of diammonium phosphate?
- Q.11 What is the filtration?
- Q.12 Write the name of two major cement industries in India?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. $(8 \times 4 = 32)$

- Q.13 What is difference between flash point & fire point?
- Q.14 Discuss the bleaching process of sugar industry in brief?
- Q.15 Write the properties and uses of ammonia?
- Q.16 Define and discuss cloud point in brief?
- Q.17 What is carbonation process? Why it is used in sugar industry?
- Q.18 Discuss the different types of cement in brief?
- Q.19 Discuss atmospheric distillation unit with the help of a schematic diagram?
- Q.20 Explain the different types of polymerization used by petroleum industry in brief?
- Q.21 Discuss the different micro nutrients that are added to fertilizers in brief?