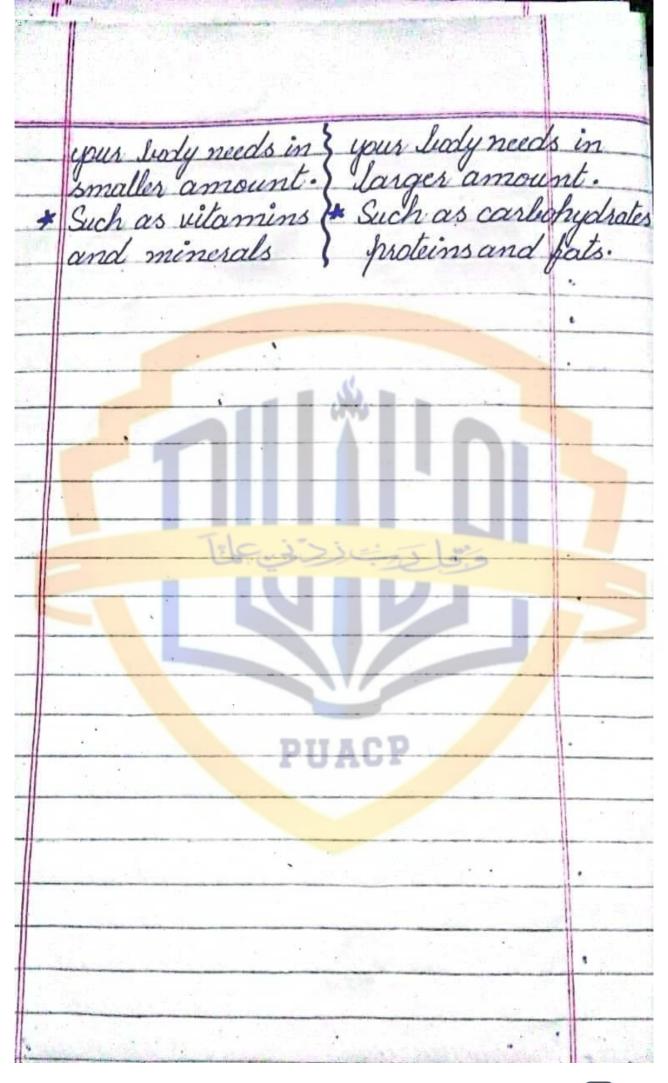
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ground, it is sent to a refinery where different parts of the crude oil are separated into usealle petroleum products. These products include gasoline, distillates such as diesel fuel and heating oil, jet fuel, petrochemical feedstocks, waxes, Subricating oils and asphalt. 5. Why desalting of crude oil is important? It is the first regining process applied to crude oil. The process removes salt, water and solid particles that would lead to problems during regining such as corrosion, fouling of equipment or poisoning of catalysts b. Bleaching of paper full:The process of making pull white to improve printing properties and its ability to absorb liquids. Eleaching also attacks some contaminants to reduce stray dark colored particles in the final sheet of paper. Sodo fulfing:-The method which is mainly used for processing annual crops such

as straws, bagasse and hardwood. In fact, the alkaline process of delignification in soda pulping is quite comparable to the Krapt method with the exception of sulpur content. Sodium hydroxide (NaOH) is used to generate an aqueous alkaline medium. 8. Why is wheat strow preferred over Wheat straw preperred over rice straw for paper pulp because the use rice straw in paper making is limited as it contains silica and que some process problems. 9. Beating process of paper production? The beating process of paper production is the mechanical treatment and modification of filers so that they can be formed into paper or leared of the desired properties: It is the important unit process, when preparing paper making fileers for high-quality y haperboara

10. How paper pulp manufacturing causes water pollution? Its discharge contains alcohols and chelating agents and inorganic materials like chlorates and transition metal compounds. Nutrients such as nitrogen and phosphorus can cause entrophication of fresh water ledies such as lakes and rivers. The waste water may also be polluted with organochlorine compounds. 11. Action of calcium cyanide as perlilizer: Calcium cyanide/cyanamide also known as netrolime which has been used as slow release nitrogen/ calcium pertilizer with Liming effect for over 100 years. Because of its negative effect on many soil home diseases it is now often applied to prevent yield and quality losseses during increasingly tight 2. 2 Examples of Phosphate pertilizers. The most common phosphate

perlilizers are: Single superphosphate (SSP) Triple superphosphate (TSP) Monoammonium phosphate (MAP) Diammonium phosphate (DSP) Ammonium polyphosphate liquid. 13. Row materials for normal superphosphate pertilizer:-The major raw materials for normal superphosphate pertilizers are phosphorite and apalite Phosphorites are sedimentary rocks of organic origin consisting of mounty of phosphates. 14. Name few natural organic perlilizers: · Manure: used as pertilizer can include manure from cows, horses and chickens. · Compost: made up ofrom decomposing materials such as scraps and leaves. · Minerals: such as potassium sulfate can mined from the ground. 15. Micro nutrients 3 Macro nutrients * These are the nutrients *These are the nutrients



7 or Semester APPLIED (A) SS PP-2020 1. Dipperent unit processes involved in i) Crude desalting process:- The pricess in which salt and other contaminants or are removed from crude oil before it is sent to atmospheric distillation for separation. ii) Atmospheric distillation: - It is the first major unit process in a regimery which is used to separate the crude oil into its component distillation fractions. which crude oil is separated into its various fractions like kerosene, diesel and heavy residue etc. Migration of oil: The movement of petroleum/oil from source rock toward a reservoir or seep. There are numerous factors controlling the hydrocarbons migration processes like kerogen, expansion, increase in pressure and hydrocarlon expulsion out of source rock.

Catalytic alkylation:-It is a chemical process in which. Light, gaseous hydrocarbons are combined to produce high-octance components of gasoline. The light hydrocarbons consist of defins such as propylene and butylene and isoparaffins such as isolutane. How prilling is carried out during wred manufacturing? Prilling is a process by which solid particles are produced from molten urea. Malten urea is sprayed from the top of a prill tower. As the droplets fall through a countercurrent air plow, they cool and solidify into nearly spherical particles. Role of beating in pulp refining:--2021 Question: 4 Action of ammonium sulfate as berlilizer:is the most commonly used artificial perlilizer for alkaline solls. When troduced into damp oil, an ammonium ion is released. This

creates a small amount of acid which lowers the pH balance of the soil. It also contributes nitragen, which aids in plant growth. In this process, the white liquor penetration and diffusion into the interior of wood chips . When the wood chips are heated the delignification reaction starts, but the reaction rate is very slow- The specific Kraft cooking temperature is generally 135-175°C in which lignin structure and other organic compounds are broken down into small pragments and solubilized into the alkaline solution. B. Temperature and catalyst conditions for Haber's process: In this process, normally an iron catalyst is used and the whole procedure is conducted by maintaining a temperature of around 400-450°E and a pressure of 150-200 atm. Agriculture waste used to make paper The most important agricultural

straus, bagasse and grasses.
These are the agri-waste which. Significance of Potash festilizer-It is used to regulate the movement and storage of solutes throughout the flant compasable to the blood system in animals or human. Small quantities are used in manufacturing potassium-bearing chemicals such as detergents, ceramics etc.

APPLIED (A) SS PP-2019 1. 4 fractions with carbon range obtained from fractional distillation of petroleum. 2. Explain isomerization: The process which involves the raduction of branched parappins from Straight chain CH's. It is used to convert low-actane n-parappins to high octane iso-parappins, which is used for blending straight gasoline to improve its octane number. It is usually carried out at 100-200°C 3. Different unit processes involved in treatment of crude oil:--2020 Question:1 4. 4 raw materials for paper industry: Wad based material Agricultural wastes (straw, bagasse, grasses) Waste haher Cotton linters and waste. 5. Role of sweetening process in crude oil repining:-The fracess which is used to resnove the so called Acid Gases which are

	the refinery gas streams. This first used either to purify a gas streams for further use or for environmental reasons.	n vocess tseam
6.	for further use or for environments. Temperature and catalyst confor Hower's process?	ditions
7.	Migration:	
8.	Micro-nutrients Macro-nutrie	ents
9.	Why desalting of crude oil important?	is
10.	Urea assimilation in so	il:-
	PUACP	
		to list awards