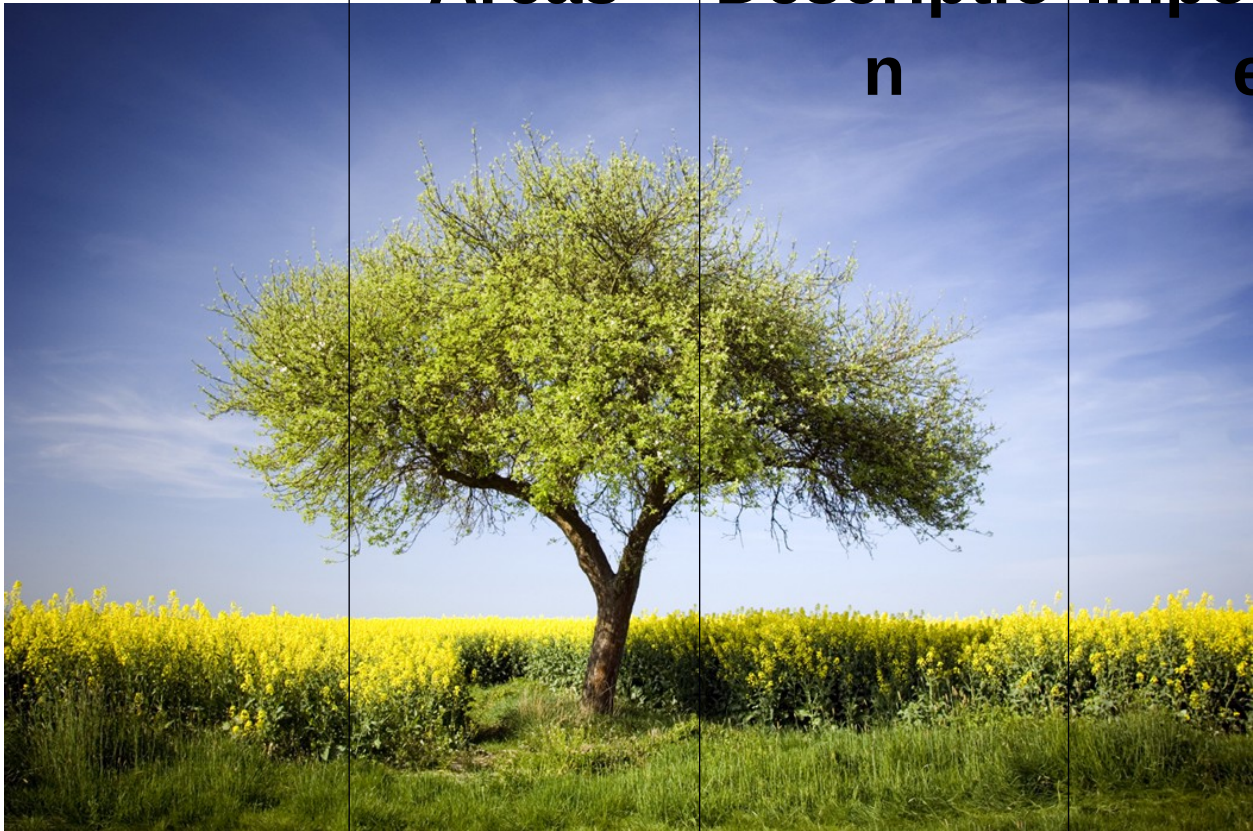




	Areas	Description	Importance
			
types			
<b>Alpine Forests</b>	Northern areas (Astore, Gizal, Skardu, and Gojal)	<ul style="list-style-type: none"><li>• They grow from tree line (4000m) to snow line (4500m)</li><li>• They have low height to avoid cold winds which have less speed near the surface</li><li>• These forests have upward branches to attain more sunlight</li></ul>	Used as fuel wood

		<ul style="list-style-type: none"> <li>• They grow between rocks to shelter them from cold winds</li> <li>• They are evergreen</li> <li>• The tree density is low as nutrients are already in the soil</li> </ul>	
<b>Coniferous Forests</b>	<ul style="list-style-type: none"> <li>• Northern areas</li> <li>• NWFP</li> <li>• Balochistan Mountains</li> <li>• (Swat, Shangla, Abbotabad, Nowshera, Gilgit, Skardu)</li> </ul>	<ul style="list-style-type: none"> <li>• They grow from 1000m to 4000m.</li> <li>• These are the <b>most abundant type of forests found in Northern Pakistan</b></li> <li>• Most conifers are evergreen</li> <li>• They have straight high trunks to reach more sunlight in valleys to avoid shadows</li> <li>• They have thick bark to protect from</li> </ul>	<ul style="list-style-type: none"> <li>• Important source of timber</li> <li>• Attract tourists and promote tourism industry</li> <li>• Add to the scenic beauty of the area</li> </ul>

		<p>cold weather</p> <ul style="list-style-type: none"> <li>• They have long, thin and needle shaped leaves with waxy cuticle, so to minimize water loss by evapotranspiration</li> </ul>	
<p><b>Tropical Thorn Forests</b></p>	<ul style="list-style-type: none"> <li>• Punjab Plains</li> <li>• Southern Balochistan</li> <li>• Sindh Plains</li> </ul>	<ul style="list-style-type: none"> <li>• Trees are low in height 6-10 feet</li> <li>• As name suggests they have lot of thorns to prevent grazing</li> <li>• They have a deep tap root system to search for water</li> <li>• Their small leaves prevent water loss.</li> <li>• Umbrella shaped tops enables the leaves to catch as much sunlight as possible</li> </ul>	<p>Used as firewood</p>

<h2>Bela Forest</h2>	<ul style="list-style-type: none"> <li>• They are found mainly in Sindh along Indus, some are also found in Indus in Punjab, while others are found near banks of Jhelum and Chenab</li> </ul>	<ul style="list-style-type: none"> <li>• These forests are a mixture of small shrubs and grasses along with trees</li> <li>• Tree height varies from 2 -18 metres.</li> <li>• They can tolerate arid and conditions</li> <li>• Some species can also tolerate high salt concentration in water</li> <li>• Most species are evergreen but not all</li> <li>• They grow along banks of Indus in straight lines</li> </ul>	<ul style="list-style-type: none"> <li>• Provide Shishum and Babul, which are used in the manufacturing of furniture and agricultural implements</li> </ul>
<h2>Subtropical Thorn Forest</h2>	 <p>Hills and foothills of Himalayas</p>	<ul style="list-style-type: none"> <li>• These forests contain a mixture of trees, dry grass and shrubs</li> <li>• Trees are round in shape with thick trunks to reduce water loss. They</li> </ul>	<ul style="list-style-type: none"> <li>• Watershed protection</li> <li>• Supplying firewood</li> <li>• Grazing purposes</li> </ul>

	 <p>Suleiman and Kirthar Ranges</p> <p>Western Mountains</p> <p>Above the Makran Coast Range</p>	<p>have broad leaves for more photosynthesis</p> <ul style="list-style-type: none"> <li>Trees also have deep roots to search for water and they shed their leaves in dry period</li> </ul>	
<h2>Irrigated Forests</h2>	<ul style="list-style-type: none"> <li>They are found at Changa Manga near Lahore, and at Chicha Watni</li> </ul>	<ul style="list-style-type: none"> <li>Trees are planted <b>at once</b> in blocks with <b>one type</b> of tree in <b>one block</b>. Same time of plantation means they can also be</li> </ul>	<ul style="list-style-type: none"> <li>They are used for making matchsticks, furniture, agricultural instruments (plough, gates) and reducing air pollution etc</li> </ul>

		<p>easily harvested at once</p> <ul style="list-style-type: none"> <li>• Trees are planted equidistant to each other</li> <li>• Between the blocks roads run in rectangular pattern. They are used to transport lumber and machinery</li> <li>• Also, water courses run between the blocks. The level of water in the courses is lower than the trees, so to prevent waterlogging in the root area</li> </ul>	<ul style="list-style-type: none"> <li>• Some trees are also used for pulp production which make paper and some are used for chemicals like varnishes medicines etc</li> <li>• Some are used for making sports goods like bats or to make crafts like wooden toys etc Others may be used as railway sleepers <b>but not as railway engine fuel</b> (sleepers are planks which are laid beneath the track)</li> </ul>
<b>Mangrove S</b>	<ul style="list-style-type: none"> <li>• They are found in Indus delta (Karachi and Thatta districts) and Hab delta (Gwadar district)</li> </ul>	<ul style="list-style-type: none"> <li>• Mangroves have prop roots so they can absorb more oxygen through the pores in their bark.</li> <li>• They have highly impermeable</li> </ul>	<ul style="list-style-type: none"> <li>• They are used for timber, fuel wood, leaves for cattle fodder, branches for roofs along with mud, and for extraction of honey</li> <li>• They also</li> </ul>

		<p>roots, which limit the amount of salt entering the plant</p> <ul style="list-style-type: none"> <li>• The salt which eventually enters the plant is stored in old leaves when they are to shed away</li> <li>• They have thick leathery leaves which can control the size of their pores effectively limiting the amount of water the plant transpires</li> </ul>	<p>reduce soil erosion in coastal areas due to tidal action</p> <ul style="list-style-type: none"> <li>• ports after which dredging required to make the deep again</li> <li>• They form important breeding and protection grounds for fish</li> <li>• They reduce the impact of tsunami and tropical cyclones by acting as barriers to their brute force</li> </ul>
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