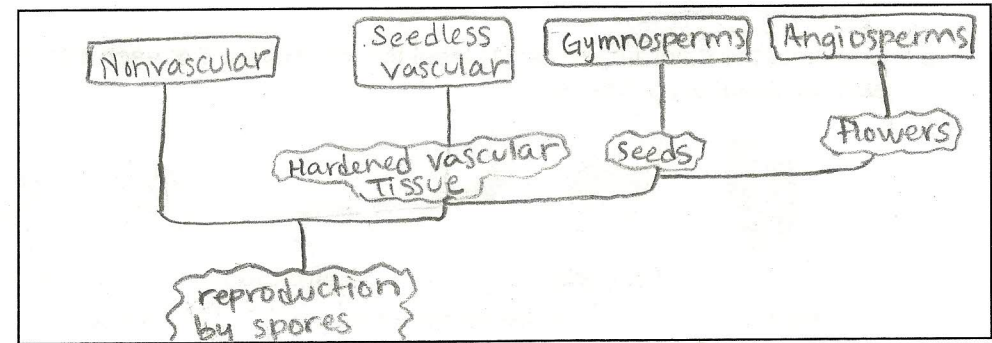


EUKARYOTES: PLANTS

4. Draw a phylogenetic tree illustrating the relationship between the four groups of land plants. Note the key characteristic that distinguishes each major branch.



5. In the table below outline the key characteristics that distinguish the four groups of land plants by making notes on the following: (1) presence or absence of vascular system, (2) dominance of gametophyte vs. sporophyte, (3) mode of reproduction, and (4) any other notable characteristic.

PLANT GROUP	VASCULAR SYSTEM	GAMETOPHYTE & SPOROPHYTE	REPRODUCTION	OTHER
Nonvascular plants	Absent	Gametophyte Dominant	Spores	Do not form true roots, stems, or leaves
Vascular plants	Present	Sporophyte Dominant	Spores	Dominated the Earth until about 200 million years ago
Gymnosperms	Present	Sporophyte Dominant	seeds	Male and female pinecones
Angiosperms	Present	Sporophyte Dominant	Flowers	First appeared in fossils