Name
Types Of Plants
I. Alternation Of Generations
1. Circle the letter of each sentence that is true about alternation of generations.
a. In all plants, the sporophyte generation is diploid, 4 (2 set of changes extends)  b. The gametophyte in seed plants is hidden within the sporophyte plant.  c. The recognizable part of a seed-bearing plant is the gametophyte. Sporophyte  d. In all plants, the gametophyte generation is haploid. 4—(1 set of changes extends)  Plants  2. An important trend in plant evolution is the reduction in the size of the gametophyte
2. An important trend in plant evolution is th reduction in the size of the gametophyte.
<u>Circle One</u> : True False
3. Where are the gametophytes found in gymnosperms and angiosperms?
Gymnosperms = conet / Angiosperms = flowers
II. Nonvascular Plants
1. Which of the following statements is false concerning nonvascular plants?
<ul> <li>a. Nonvascular plants lack true roots, stems, and leaves.</li> <li>b. Their size is small and they are relatively simple organisms.</li> <li>c. Usually non-green gametophytes grow on the larger, more noticeable sporophytes.</li> <li>d. Sexual reproduction requires a film of water covering a mat of nonvascular plants.</li> </ul>
2. List the three main types of nonvascular plants.
1. Mosses 2. Liverworts 3. Hornworts  III. Seedless Vascular Plants (Green horn-like)  Sporiphyte
III. Seedless Vascular Plants (Flutte and with Green horn-like)
1. Which of the following statements is false concerning seedless vascular plants?
<ul> <li>a. Seedless vascular plants do not produce seeds, but are larger than nonvascular plants.</li> <li>b. They do of possess vascular systems of xylem and phloem.</li> <li>c. The large sporophyte size enables spore wind dispersal to be much easier.</li> <li>d. Fertilization requires water, but seedless vascular plants have drought-resistant spore</li> </ul>
2. List the four main types of seedless vascular plants.
1. Ferns 2. Club Morrer (some h  3. Horse tails 4. Whish Ferns  IV. Gymnosperms (whorls of scale-like leaves)  (highly branched stems)
3. Horretails 4. Whish Ferns
IV. Gymnosperms (whorls of scale-like leaves) (highly branched stems)
1. Define the term gymnosperm.
Gymnosperm - seed plants whose seeds do not develop within a sealed container (a fruit) ("natural seed")
2. Which of the following statements is false concerning gymnosperms?
a. Produce coads that do not develop with a coaled container (a fruit)

- a. Produce seeds that do not develop with a sealed container (a fruit).
- b. Seeds protect the embryo, provide nutrients, and enable survival in adverse conditions.
- e. Gymnosperms produce tiny male and female gametophytes (known as pollen & seed).
- d. Very few gymnosperms are wind-pollinated.

		Name	
3. Match the type of gymnosperm with the correct characteristics.			
	1. Conifers	A. Short stems with palm-like leaves	
	2. A Cycads	B. Produce pollen & seeds in cones that resemble flowers	
	3. Ginkgo	C. Leaves are needle-like or reduced tiny scales	
	4. B. Gnetophytes	D. Fan-shaped leaves; Separate male & female trees	
V. Angiosp	erms		
1. Define the term angiosperm.			
Monoeciow 2. W	Angiosperm - plant to an enclo an enclo Case: Which of the following statement	het produces seeds that develop within sed specialized structure called a fruit seed ents is <u>false</u> concerning angiosperms?	
Plants  "One House  - produce carpel	b. Male and female gameto  c. Pollination can only occur	enclosed structure called a fruit.  phytes develop within flowers.  It through insect pollination, and wind or self-pollination.  It is a supply of stored food in the form of an endosperm.	
flowers 3. Match the floral part with its description.			
Dioccious	1. Anthers	A. Stalk with the stigma at the top	
Plants	2 Carpels	B. Structures where male gametophytes are produced	
"Two Howes"	3. Filament	C. Flower part that contains one or more ovules	
produce either	4 Ovary	D. Outermost, green floral parts (Enclose bud during)	
staminate	5. Petals	E. Long, thin structure that supports the anther	
flowers	6. Sepals	F. Innermost floral parts that produce female gametophytes	
	7. A. Stamen	G. Sticky, top portion of the style	
	8. <u>G.</u> Stigma	H. Male structure made up of an anther and a filament	
	9. A Style	I. Brightly colored parts just inside the sepals	
4. Label the parts of the flower on the illustration.			
Eating an apple = eating an overy	Petal	Anthor Steven Filament Siyle  Ovule	
5. What are the separate male and female flowers on a corn plant?			
(Castration)	Male Flower =	Female Flower = Sik	