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Weed Science, PLS 4601c Section 7644
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Quiz 6

1. Which of these herbicides is nonselective?
 - a) fluazifop-p
 - b) glyphosate <<<<<<<<**
 - c) imazapyr
 - d) metsulfuron
 - e) MSMA
2. Which herbicide contains a heavy element (not H, C, O, N, or S):
 - a) fluazifop-p
 - b) glyphosate
 - c) imazapyr
 - d) metsulfuron
 - e) MSMA <<<<<<<**
3. Which herbicide is translocated apoplastically:
 - a) atrazine <<<<<<<**
 - b) fluazifop-p
 - c) glyphosate
 - d) oxadiazon
 - e) paraquat
4. Which herbicide has a low mammalian LD₅₀ based on adult rats:
 - a) atrazine
 - b) fluazifop-p
 - c) glyphosate
 - d) oxadiazon
 - e) paraquat <<<<<<<**

5. Which herbicide is most unlikely to cause problems for seedlings:
- a) atrazine
 - b) glyphosate <<<<<<<<**
 - c) metsulfuron
 - d) oxadiazon
 - e) pendimethalin
6. Which herbicide is an ALS inhibitor:
- a) atrazine
 - b) glyphosate
 - c) metsulfuron <<<<<<<<**
 - d) oxadiazon
 - e) pendimethalin
7. Which herbicide is more commonly associated with groundwater issues:
- a) atrazine <<<<<<<<**
 - b) glyphosate
 - c) metsulfuron
 - d) oxadiazon
 - e) paraquat
8. Which herbicide is most likely to provide postemergence control of grasses:
- a) 2,4-D
 - b) metsulfuron
 - c) MSMA <<<<<<<<**
 - d) oxadiazon
 - e) pendimethalin

9. For each family of herbicides, insert the common chemical name of one example:

Herbicide family	Herbicide common chemical name
aryloxyphenoxypropionate	fluazifop-p
dipyridilium	paraquat
dinitroaniline	pendimethalin
glycine	glyphosate
imidazolinone	imazapyr
organic arsenical	MSMA
oxadiazole	oxadiazon
phenoxy acid	2,4-D or (2,4-dichlorophenoxy)acetic acid
sulfonylurea	metsulfuron
triazine	atrazine

10. For each family of herbicides, insert the mechanism of action from the list:

Herbicide family	Herbicide mechanism of action
aryloxyphenoxypropionate	(1) ACCase inhibitor
bipyridilium	(6) photosystem I electron diverter
dinitroaniline	(5) microtubule / spindle apparatus inhibitor
glycine	(4) EPSPS inhibitor
imidazolinone	(2) ALS inhibitor
organic arsenical	(9) unknown
oxadiazole	(8) protox inhibitor
phenoxy acid	(3) auxin-type
sulfonylurea	(2) ALS inhibitor
triazine	(7) photosystem II inhibitor

(1) ACCase inhibitor, (2) ALS inhibitor, (3) auxin-type, (4) EPSPS inhibitor, (5) microtubule / spindle apparatus inhibitor, (6) photosystem I electron diverter, (7) photosystem II inhibitor, (8) protox inhibitor, (9) unknown