

ROCKY MOUNTAIN CCA SELF-STUDY EXAMINATION

DIRECTIONS

- 1. Clearly mark an "X" in the brackets next to the best answer to each question. Complete evaluation form and registration form.
- 2. Tear out this page and place in envelope along with a \$10 check (processing fee) payable to the American Society of Agronomy (or fill out credit card information). Payment in U.S. currency only.
- 3. Mail self-study exam and fee to: ASA c/o CCA Self-Study Exam, 677 S. Segoe Road, Madison, WI 53711.

A passing exam score (70%) is worth 1.0 Rocky Mountain CEU's in soil and water management.

	JESTIONS
1.	Mycorrhizae are a [] a. Nitrogen-fixing bacteria [] b. Actinomycete [] c. Protozoa [] d. Plant-fungi symbiosis
2.	Granular structure is largely the result of [] a. Soil biological processes [] b. Compaction [] c. Water infiltration [] d. Sand dominated soils
3.	A typical agricultural soil is usually [] a. 10% air and 90% solids [] b. 50% solids and 50% pores [] c. 25% air and 75% solids [] d. 10% air, 40% water and 50% solids
4.	The soil property which is generally considered to be relatively constant and the most important physical property of the soil is [] a. Soil water [] b. Soil porosity [] c. Soil texture [] d. Bulk density
5.	At 70% saturation, microorganism activity is most likely low because of [] a. Low nutrient availability [] b. Low available oxygen [] c. Low temperatures [] d. Low capillary water content
6.	Of the following soil types, which would most likely hold the most water at field capacity? [] a. Silt [] b. Sandy loam [] c. Clay loam [] d. Loam
7.	Most chemical reactions in the soil occur on the surface of [] a. Sand particles [] b. Silt particles [] c. Colloid particles [] d. Water molecules

8.	Sodic soils are dominated by ions on exchange sites. [] a. Calcium [] b. Potassium [] c. Sodium [] d. Aluminum					
9.	The most biologically active region in the soil is the [] a. B horizon [] b. C horizon [] c. Earthworm casts [] d. Rhizosphere					
10.	Calcareous soils in Montana and Wyoming are most likely [] a. Acidic [] b. Alkaline [] c. Neutral [] d. There is no correlation between calcareous soils and pH					
	SELF-STUDY EVALUATION FORM					
	SOIL AND WATER MODULE #1					
	STRON DISAG	GLY ←		STRONGLY AGREE		
Inf	ormation presented will be useful in my daily crop advising activities	2	3	4	5	
Information was organized and logical		2	3	4	5	
Graphics/tables were appropriate and enhanced my learning			3	4	5	
I was stimulated to think how to use and apply the information presented			3	4	5	
The	e article addressed the stated competency area and performance objective(s)	2	3	4	5	
	What suggestions (general and specific) do you have to improve future modules?					
	Topics you would like to see addressed in future self-study materials: SELF-STUDY EXAM REGISTRATION FORM	1—				
	FOR ROCKY MOUNTAIN CCA CREDIT					
Na	me:					
	dress:					
	y, State, Zip:					
	A Certification #: Credit Card Type and #					
Exp	oiration Date: Name on Card:					
т	A \$2.00 Processing Fee will be added to			charges	ř.	
1 C6	rtify that I alone completed this self-study course and recognize that an ethics violation may revoke m	y CCA s	ratus.			

Date

Signature of registrant as it appears on Code of Ethics