SOUTH DAKOTA STATE FFA CDE AGRONOMY TEST 2006

Multiple Choice:

SELECT THE ONE BEST ANSWER AND RECORD ON SCAN SHEET:

- 1. When chemicals produced by one plant affect another this is called
 - A. Allelopathy
 - B. Syngamy
 - C. Aerobic
 - D. Biotic
- 2. An example of a long-day plant is
 - A. Soybean
 - B. Strawberry
 - C. Winter wheat
 - D. Corn
- 3. A class of plant growth hormones is
 - A. Starch
 - B. Gibberellins
 - C. Mycorrhizae
 - D. Amino acids
- 4. Noxious weeds are defined as
 - A. Undesirable, troublesome, and/or difficult to control
 - B. Dandelions
 - C. Only a problem in row crops
 - D. None of the above
- 5. Scientific name for corn
 - A. Sorghum halepense
 - B. Triticum aestivum
 - C. Glycine max
 - D. Zea maize
- 6. An impervious layer in the soil that restricts root penetration as well as movement of air and water
 - A. Horizon
 - B. Hardpan
 - C. Index
 - D. Abscission layer
- 7. The Hessian fly is a problem in what crop?
 - A. Oats
 - B. Corn
 - C. Alfalfa

	D.	Wheat		
8.	A warm-season turf grass in the United States			
	Α.	Kentucky bluegrass		
	В.	Bermudagrass		
	C.	Perennial ryegrass		
	D.	Creeping bentgrass		
9.	Vernalization is			
	A.	Promotion of flowering by a cold treatment given to plants or imbibed seeds		
	B.	Timing of fertilizer application		
	C.	Using heat to seal plant injuries		
	D.	A process that produces Abscisic acid		
10.	What helps or promotes Nitrogen fixation in legume plants?			
	A.	Rhibosomes		
	В.	Stolons		
	C.	Rhizobia		
	D.	Regeneration		
11.	A horizontal, often fleshy stem that can root and then produce new shoots where it			
		hes the soil is a		
	A.	Stolon		
	B.	Rhizome		
	C.	Stipule		
	D.	Tendril		
12.	Chen	nical nutrient needed for the synthesis of amino acids and proteins		
	A.	Calcium		
	B.	Potassium		
	C.	Nitrogen		
	D.	Boron		
13.	Deep	chiseling (greater than 16 inches) breaking compact subsoils without inverting them		
	A.	Strip tillage		
	В.	Subsoiling		
	C.	Drilling		
	D.	Chiseling		
14.		ased from the stamen		
	A.	Pistil		
	B.	Pollen grain		
	C.	Polar nuclei		
	D.	Egg cell		
15.	Process by which cool-season vegetables are made to adapt to cooler temperatures by			
	_	ually exposing young transplants to stress (i.e. – cold temperatures)		
	A.	Dormancy		
	В.	Stratification		

B. C.

Vernalization

16.	D. Corn, A. B. C. D.	Hardening wheat and turf grass seeds are what type of fruit? Capsule Legume Caryopsis Achenes
17.	Which A. B. C. D.	cell structure contains the chromosomes? Protoplast Cell walls Nucleus Chloroplast
18.	Embry A. B. C. D.	Cotyledons Plumules Coleoptiles Coleorhizas
19.	Scient A. B. C. D.	ific name of soybeans Sorghum halepense Gossypium hirsutum Triticum aestirum Glycine max
20.	Develo A. B. C. D.	opment of secondary shoots Tillering Jointing Tilth Tapping
21.	Having A. B. C. D.	g one half of the complete set of chromosomes typical for a species Diploid Haploid Polyploid Triploid
22.	Alfalfa A. B. C. D.	One inch One-quarter inch One-half inch Two inches
23.	A subs A. B. C. D.	Aleurone Acidic Basic Monophasic

24.	Corn seed should be planted how deep?			
	A. Less than one inch			
	B. $2-3$ inches			
	C. $1\frac{1}{2}$ to 2 inches			
	D. 3 -4 inches			
25.	Cutting a portion of a plant to propagate a new plant is a form of what?			
	A. Sexual reproduction			
	B. Asexual reproduction			
	C. Pollination			
	D. Fertilization			
26.	Union of the two male gametes with the female gamete and the polar nuclei			
20.	A. Double fertilization			
	B. Eukaryote			
	C. Fermentation			
	D. Fixation			
27.	A spontaneous change in the genetic make-up of a cell			
	A. Node			
	B. Mutation			
	C. Genetic shift			
	D. Mitosis			
28.	A halving of the chromosome number is caused by what process?			
20.	A. Pollination			
	B. Fertilization			
	C. Mitosis			
	D. Meiosis			
29.	The part of the flower made up of the stigma, style and ovary			
	A. Stamen			
	B. Sepal			
	C. Petal			
	D. Pistil			
30.	Possessing identical genes			
50.	A. Alleles			
	B. Heterozygous			
	, ,			
	76			
	D. Homologous			
31.	A tiny plant as it exists in a seed			
	A. Zygote			
	B. Dicot			
	C. Embryo			
	D. Monocot			

32.	An environment in which oxygen is absent				
		aerobic			
		robic			
		rigen			
	D. Soi	lbed			
33.	Amino acio	Amino acids are the building blocks of?			
		teins			
	B. Fats	S			
	C. Lip	ids			
	D. Sto	lons			
34.	An organelle that contains chlorophyll and is the site of photosynthesis and starch				
	formation	formation			
	A. Chl	oroplast			
	B. Mit	ochondria			
	C. Nuc	cleus			
	D. Vac	cuole			
35.	The applica	ation of biological and engineering techniques to manipulate the genetic code			
	of plants				
	A. Bio	logy			
	B. Bio	technology			
	C. Bio	synthesis			
	D. Bio	me			
36.		Which of the following is not an oilseed crop?			
		nola			
	B. Wh	eat			
	C. Saf	flower			
	D. Sun	nflower			
37.	-	Evaporation of water from leaf and plant surfaces			
		spiration			
		nslocation			
		matization			
	D. Tra	nspiration			
38.	The application of a herbicide after the crop and weeds are both up and growing in the				
	field				
		t-emerge			
		-emerge			
		t-harvest			
	D. Pre-	-harvest			
39.	Bearing both staminate and pistillate flowers (unisexual flowers) on the same plant				
		fect			
	B. Dio	pecious			

C.

Monoecious

	D.	Gamopetalous		
40.	A blade, petiole, and stipule make up?			
	A.	A leaflet		
	B.	A compound leaf		
	C.	A terminal leaflet		
	D.	A complete leaf		
41.	Vascular system in plants is made up of?			
	A.	Xylem and Crowns		
	B.	Xylem and Phloem		
	C.	Phloem and Epidermis		
	D.	Cortex and pith		
42.	Plant family with the characteristic of forming nitrogen-fixing nodules on its roots.			
	A.	Gymnosperms		
	B.	Legumes		
	C.	Monocots		
	D.	Xerophytes		
43.	Planting with no prior tillage			
	A.	No-till No-till		
	B.	Conservation tillage		
	C.	Ridge-till		
	D.	Chisel plowing		
44.	Remo	val of soil material by wind or water moving over the land		
	A.	Compaction		
	B.	Stripping		
	C.	Nitrification		
	D.	Erosion		
45.	Term designating the amount of water the soil can hold against gravity			
		Permanent wilting point		
	B.	Salting point		
	C.	Field capacity		
	D.	Gravity water		
46.	Treatment applied to seed to protect against insects			
	A.	Fungicide		
	B.	Insecticide		
	C.	Fertilizer		
	D.	Gametocide		

First step in germination of seed A. Enzyme activation

Cell elongation

Conversion of storage tissues Absorption of water

47.

B.

C. D.

48.	A plar A. B. C. D.	Perennial Annual Biennial Indeterminate
49.	Natura A. B. C. D.	ally occurring compound produced by the plant that affects plant growth Phytochrome Desiccant Hormone Fertilizer
50.	Leaves occurring two at a node on opposite sides of the stem A. Alternate B. Opposite C. Clasping D. Petiolate	