

Mississippi Department of Education



MS-CPAS2 Secondary Practice Assessment/ Assessment Preparatory Guidelines *10168P1-2010 Concepts of Agriscience*

General Instructor Preparatory Guidelines

- **STUDENTS SHOULD ONLY TAKE PRACTICE TESTS ONLINE.**
- The practice tests are delivered the **SAME WAY** as the live tests.
- Use the correct curriculum and MS-CPAS2 assessment blueprint located at: <http://www.rcu.msstate.edu/Curriculum/CurriculumDownload.aspx>
 - Teach the correct number of instructional hours per unit.
 - Cover each competency/objective listed in the curriculum/blueprint.
- Use multiple-choice (selected response) assessments in your classroom. Examples are Unit Tests, Quizzes, and Timed Final Practice Exams.
- Take **Assessment 101** (RCU online course) to learn how to form well-constructed assessments for your classroom.
- Review previous MS-CPAS2 year reports to identify class unit performance. Adjust in-class reviews accordingly.
- Students should take the **DEMO MS-CPAS2** *OR* the **PRACTICE MS-CPAS2** to help students prepare for testing day.
- **Only** use this document as a review of the online practice assessment **AFTER** students take the practice assessment online. It is **NOT** meant for use as a study guide or predict student performance on the live test.

MS-CPAS2 PRACTICE Assessment

1. Why is the sinking pellet form of fish feed usually fed in cold weather?

- a. Fish do not come to the surface as often in cold weather.
- b. Fish will consume more feed in cold weather to keep their bodies warm.
- c. Fish can digest the sinking pellets more easily.
- d. Floating pellet feed is specially designed to be fed in cold weather.

2. A pest control strategy that uses a variety of practices is:

- a. total pest management.
- b. complete pest management.
- c. integrated pest management.
- d. biological pest management.

3. Aphids can cause distorted plant growth, leaf stippling, and leaf burn. The damage is caused because aphids have:

- a. chewing mouthparts.
- b. sucking mouthparts.
- c. sawing mouthparts.
- d. ripping mouthparts.

4. The majority of asexual reproduction for indoor herbaceous plants occurs by:

- a. cuttings.
- b. grafting.
- c. budding.
- d. pollination.

5. All of the following can be food storage sites in the plant EXCEPT:

- a. roots.
- b. stems.
- c. flowers.
- d. leaves.

6. Plant damage such as leaf defoliation, leaf mining, and stem boring is caused by insects with:

- a. chewing mouthparts.
- b. sucking mouthparts.
- c. piercing mouthparts.
- d. siphoning mouthparts.

7. An increase in the amount of water and water vapor in a greenhouse will most likely affect:

- a. growth.
- b. ventilation.
- c. humidity.
- d. pollination.

8. What type of insect pierces the outer layer of a plant and sucks the sap from it?

- a. A sucking insect
- b. A chewing insect
- c. A beneficial insect
- d. A laying insect

9. Chemicals used to kill unwanted plants are:

- a. pesticides.
- b. herbicides.
- c. insecticides.
- d. fungicides.

10. The symbol P stands for what macronutrient?

- a. Potassium
- b. Phosphorus
- c. Primary
- d. Potash

11. Nutrients that are needed in large quantities are called:

- a. micronutrients.
- b. macronutrients.
- c. secondary nutrients.
- d. nonfertilizers.

12. To correct an acidic soil, you should add:

- a. sulfur.
- b. iron.
- c. fertilizer.
- d. lime.

13. If all primary nutrients are present, a commercial fertilizer is considered to be:

- a. concentrate.
- b. complex.
- c. complete.
- d. compound.

14. To reduce the humidity of a greenhouse, you should:

- a. turn on foggers.
- b. turn on lights.
- c. remove shade cloth.
- d. turn on circulating fans.

15. A commercial greenhouse is most commonly heated by a:

- a. broiler and radiator.
- b. wood burning furnace.
- c. solar panels.
- d. gas operated heater.

16. Which of the following is NOT a source of organic matter in soil?

- a. Leaves
- b. Manure
- c. Rock
- d. Dead organisms

17. The proportion of sand, silt, and clay in a particular soil refers to:

- a. nutrient analysis.
- b. soil structure.
- c. soil profile.
- d. soil texture.

18. Which of the following is a factor in soil formation?

- a. Freezing or thawing of water
- b. Inorganic matter
- c. pH of soil
- d. Type of clay present

19. Which is NOT a part of the hydrologic cycle?

- a. Meteoric water
- b. Surface water
- c. Ground water
- d. Bath water

20. When water reaches 120 degrees Fahrenheit, it is in what state?

- a. Solid
- b. Liquid
- c. Gas
- d. Vapor

21. The process of converting salt water into fresh water is:

- a. desalination.
- b. evaporation.
- c. condensation.
- d. preservation.

22. Aquacultural producers constantly monitor water conditions. The water conditions that are based on the degree or level of acidity or alkalinity are referred to as:

- a. turbidity.
- b. pH.
- c. hardness.
- d. dissolved oxygen.

23. The wildlife relationship that is necessary to keep different animal populations balanced is:

- a. competition.
- b. parasitism.
- c. mutualism.
- d. commensalism.

24. Animals that live in a natural environment and do not rely on human help for survival are considered:

- a. pets.
- b. natural.
- c. wildlife.
- d. domesticated.

25. The type of wildlife management area that depends on the type and number of trees is a:

- a. farm.
- b. forest.
- c. stream.
- d. wetland.

26. What is the term used to describe the comprehensive measurement or estimation of timber?

- a. Cruising
- b. Showing
- c. Plying
- d. Mapping

27. Which of the following Land Capability Classes could be steep but cultivated occasionally?

- a. Class I
- b. Class IV
- c. Class V
- d. Class VIII

28. To protect land from problems and determine the best long term use, soils are placed into:

- a. taxonomy.
- b. soil series.
- c. mapping units.
- d. land capability classes.

29. The movement of soil materials by wind and water is:

- a. slope.
- b. runoff.
- c. erosion.
- d. permeability.

30. When making a plumbing installation, you should follow the:

- a. national code.
- b. state code.
- c. local code.
- d. most stringent code.

31. The easiest and most efficient water system to install uses pipe that consists of:

- a. copper.
- b. plastic.
- c. steel.
- d. galvanized.

32. The units of measurement that measure electrical pressure are:

- a. amps.
- b. volts.
- c. watts.
- d. ohms.

33. Soldering is the process of:

- a. joining pvc pipe.
- b. cutting pvc pipe.
- c. joining copper pipe.
- d. cutting copper pipe.

34. Inventions such as the moldboard plow and the mechanical reaper are just a few examples of how agriculture has been:

- a. computerized.
- b. demechanized.
- c. mechanized.
- d. socialized.

35. The purpose of the mechanical reaper is:

- a. clearing timberland.
- b. digging drainage.
- c. planting grain.
- d. cutting small grain.

36. The device found in a household that accepts an electrical plug is called a:

- a. receptical.
- b. circuit breaker.
- c. switch.
- d. fuse.

37. What is used to connect a 3/4 in. piece of pipe to a 1/2 in. piece of pipe?

- a. A reducer
- b. A cap
- c. A coupling
- d. A valve

38. Farmer Brown has a complaint filed against him by an unknown source. The complaint states that Farmer Brown's production practice of castrating young bulls is inhumane because it gave the castrated animal no chance of producing offspring. This complaint was most likely issued by a/an:

- a. animal rights activist.
- b. local slaughterhouse owner.
- c. large animal veterinarian.
- d. area livestock specialist.

39. Which of the following is TRUE of mammals?

- a. They are covered with feathers.
- b. They lay eggs in which young develop.
- c. They have beaked mouths.
- d. Mothers secrete milk for young.

40. Raising animals in confinement allows farmers to:

- a. increase labor.
- b. reduce efficiency.
- c. increase production.
- d. reduce production.

41. To adapt an animal's behavior to fit the needs of people is to:

- a. ruminate.
- b. vaccinate.
- c. ovulate.
- d. domesticate.

42. Groups of specialized animal cells working together form:

- a. tissues.
- b. mutations.
- c. polyps.
- d. growths.

43. Animal organs are grouped according to function into:

- a. organ structures.
- b. organ domains.
- c. organ banks.
- d. organ systems.

44. Animal cells replicate through a process called:

- a. replication.
- b. mitosis.
- c. transcription.
- d. meiosis.

45. Poultry digestive systems differ from mammalian digestive systems in that they possess a/an:

- a. crop and gizzard.
- b. only a stomach.
- c. a stomach and small intestine.
- d. a small and large intestine.

46. Using the punnet square, what percentage of offspring will have horns if the following heterozygous parents are mated?

BULL: Pp

Heifer: Pp

***P indicates horned**

***p indicates polled**

- a. 100%
- b. 75%
- c. 50%
- d. 25%

47. Selective breeding is the process used to:

- a. minimize growth.
- b. increase desirable traits.
- c. prevent genetic diversity.
- d. reduce heterosis.

48. If you cross a red bull (RR) with a white cow (ww), what is the offspring outcome?

- a. 100% RR
- b. 100% ww
- c. 100% Rw
- d. None of the answers

49. The genetic blueprint in a cell responsible for genetic characteristics is known as:

- a. RNA.
- b. CNA.
- c. DNA.
- d. QNA.

50. An animal's genes are found on the:

- a. vacoules.
- b. mitochondria.
- c. cell membrane.
- d. chromosomes.

MS-CPAS2
PRACTICE Assessment
Answer Key

Answer Key

Question	Answer
1	A
2	C
3	B
4	A
5	C
6	A
7	C
8	A
9	B
10	B
11	B
12	D
13	C
14	D
15	D
16	C
17	D
18	A
19	D
20	B
21	A
22	B
23	A
24	C
25	B

Question	Answer
26	A
27	B
28	D
29	C
30	D
31	B
32	B
33	C
34	C
35	D
36	A
37	A
38	A
39	D
40	C
41	D
42	A
43	D
44	B
45	A
46	B
47	B
48	C
49	C
50	D