

Sample Items

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Postsecondary Forestry Technology

Test Code: 244

Mississippi Department of Education
Office of Student Assessment



MS-CPAS2 Sample Test Items

The MS-CPAS2 sample test items for the Mississippi Vocational–Technical Curriculum Frameworks are now available to the public.

Sample test items are provided to help familiarize students with the MS-CPAS2. The sample test items in this publication are representative only and should not be interpreted as exact duplicates of the items on the MS-CPAS2. Although the results of the MS-CPAS2 sample test items can be used to determine students' strengths and weaknesses, they should not replace other forms of classroom assessment.

The answer keys are located at the back of each sample item document and can be used to identify the unit/course to which the sample item is aligned as well as the cognitive level (C1 or C2) of each item.

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1

Under the General Land Office Survey, a “standard section” contains a total of how many acres?

- A. 40
- B. 50
- C. 160
- D. 640

2

Based on the following illustration, what is the NW corner?



- A. 1
- B. 2
- C. 3
- D. 4

3

Which option is NOT a sampling technique used to measure standing timber?

- A. Line plot cruising
- B. Prism cruising
- C. Strip cruising
- D. Window cruising

4

In point sampling, trees to be tallied are identified by the use of a:

- A. range pole.
- B. compass.
- C. tree caliper.
- D. prism.

5

Which one of the following tools is used for cruising timber?

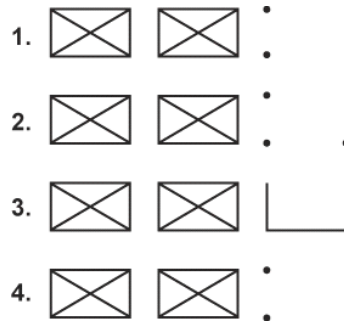
- A. A cant hook
- B. A lumber grading stick
- C. A compass
- D. A yardstick

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Given the following raw data and the associated chart, what is the total board feet volume?

DBH	Height	Volume
16	2	?
19	3	?
14	2.5	?
15	3	?



- A. 267
- B. 342
- C. 514
- D. 577

7

What does BMP stand for?

- A. Best Management Practices
- B. Better Money Practices
- C. Best Meeting Practices
- D. Business Measurement Practices

8

A graduate of an associate of applied science degree program in forestry is qualified for a:

- A. soil scientist position.
- B. wildlife biologist position.
- C. registered forester position.
- D. forest technician position.

9

Who studies the air surrounding the earth and determines weather forecasts?

- A. Biologists
- B. Meteorologists
- C. Conservationists
- D. Chemists

10

President Theodore Roosevelt was known for helping preserve our country's:

- A. air.
- B. prairies.
- C. water.
- D. forest land.

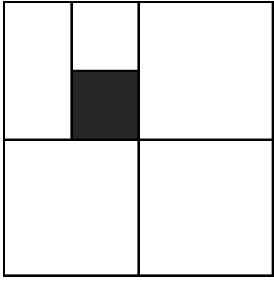
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- 11** A forestry consultant makes a timber sale of \$150,000. Commission on the sale is 6%. The landowner wishes to withhold \$80 an acre for reforestation on 175 acres. How much money would the landowner receive on the sale?
- A. \$110,000
 - B. \$115,000
 - C. \$117,000
 - D. \$127,000
- 12** Under the general land office survey, how many sections does a standard township contain?
- A. 16
 - B. 24
 - C. 36
 - D. 48
- 13** How many chains are in a mile?
- A. 20
 - B. 40
 - C. 60
 - D. 80
- 14** In Mississippi, deeds are recorded in the:
- A. chancery clerk's office.
 - B. sheriff's office.
 - C. county agent's office.
 - D. lawyer's office.
- 15** Contour lines that are close together indicate that the elevation is:
- A. changing rapidly.
 - B. changing gradually.
 - C. not changing.
 - D. static.
- 16** Which kind of aerial surveying secures field data for plotting a map that shows the configuration of the earth's surface and the location of natural and artificial objects?
- A. Hydrographic surveying
 - B. Land surveying
 - C. Route surveying
 - D. Topographic surveying
-

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What is the legal description of the plot of land shaded below?



- A. NE1/4, SE1/4, S16, T12N, R6E
- B. NW1/4, NW1/4, S16, T12N, R6E
- C. SW1/4, NE1/4, S16, T12N, R6E
- D. SE1/4, NW1/4, S16, T12N, R6E

18

Which technique is a method of natural regeneration?

- A. Broadcast
- B. Cuttings
- C. Seed tree
- D. Transplanting

19

Seed is selected for planting, and the seed package lists the germination percentage at 90%. Out of every 100 seeds planted, how many should germinate?

- A. 9
- B. 10
- C. 33
- D. 90

20

Which of the following is NOT an advantage of artificial regeneration?

- A. Inconsistent control of spacing
- B. Control of tree spacing
- C. Control of desired species
- D. Planting of genetically improved trees

21

Removal of trees in poor condition, of poor quality, or of undesired species is called what type of cutting?

- A. Coppice
- B. Improvement
- C. Release
- D. Salvage

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- 22** Storm-damaged timber is removed by:
- A. a release cut.
 - B. an improve cut.
 - C. pre-commercial thinning.
 - D. salvage cutting.
- 23** You must reforest a 40-acre tract using 10x10 spacing to plant 436 trees to the acre. Seedling cost is \$40 per 1,000 seedlings. What is your total cost for seedlings to reforest the entire tract?
- A. \$545
 - B. \$698
 - C. \$943
 - D. \$1,008
- 24** Where do longleaf pines naturally occur?
- A. Black Prairie
 - B. Delta
 - C. Loess Hills
 - D. South Mississippi
- 25** The overcup, bald cypress, and Tupelo gum species occur on which of the following?
- A. Bottom land
 - B. High, dry sites
 - C. Ridges
 - D. Well-drained areas
- 26** Which tree is deciduous?
- A. Cherrybark oak
 - B. Loblolly pine
 - C. Red cedar
 - D. Slash pine
- 27** Which tree does NOT have a compound leaf?
- A. Black walnut
 - B. Box elder
 - C. Mockery nut hickory
 - D. Yellow poplar
-

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The genus name of the oaks is:

- A. *Acer*.
- B. *Betula*.
- C. *Juglans*.
- D. *Quercus*.

29

Cherry bark oak sells for \$600.00 per MBF. What is the value of 3,000 board feet?

- A. \$1,200
- B. \$1,800
- C. \$2,000
- D. \$180,000

30

What does SFI mean?

- A. Substitute Forestry Increase
- B. Sustainable Forestry Initiative
- C. Society of Forestry Interns
- D. Square Foot Index

31

Which of the following federal agencies regulates safety for logging operations?

- A. DEQ
- B. EPA
- C. OSHA
- D. SAF

32

Significant soil erosion on logging sites can be reduced by:

- A. reseeded and establishing of a grass cover crop.
- B. use of rock sluices.
- C. construction of sediment basins.
- D. large equipment.

33

Which element is essential for a timber sale contract?

- A. Landowner's tax bracket
- B. Timber removal period
- C. Site index
- D. Soil type

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One of the limitations of mechanized harvesting equipment is that it:

- A. is less expensive to maintain.
- B. decreases productivity over time.
- C. is not able to operate on extremely steep slopes.
- D. is more hazardous to operate than older conventional methods.

35

You are contracting with a trucker to haul logs to the mill. The total amount of wood to be hauled is 1,000 tons, the mill is 50 miles away, and the trucker charges \$0.08 per ton per mile for a one-way trip. What is the total cost of hauling your wood to the mill?

- A. \$3,000
- B. \$3,500
- C. \$4,000
- D. \$4,500

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?	⊙	Answer/ Scale	Objective
1	1	D	FOT 1114-C1
2	2	A	FOT 1114-C1
3	3	D	FOT 1114-C1
4	4	D	FOT 1114-C1
5	5	C	FOT 1114-C1
6	6	D	FOT 1114-C2
7	7	A	FOT 1813-C1
8	8	D	FOT 1813-C1
9	9	B	FOT 1813-C1
10	10	D	FOT 1813-C1
11	11	D	FOT 1813-C2
12	12	C	FOT 2124-C1
13	13	D	FOT 2124-C1
14	14	A	FOT 2124-C1
15	15	A	FOT 2124-C1
16	16	D	FOT 2124-C1
17	17	D	FOT 2124-C2
18	18	C	FOT 2614-C1

?	⊙	Answer/ Scale	Objective
19	19	D	FOT 2614-C1
20	20	A	FOT 2614-C1
21	21	B	FOT 2614-C1
22	22	D	FOT 2614-C1
23	23	B	FOT 2614-C2
24	24	D	FOT 1714-C1
25	25	A	FOT 1714-C1
26	26	A	FOT 1714-C1
27	27	D	FOT 1714-C1
28	28	D	FOT 1714-C1
29	29	B	FOT 1714-C2
30	30	B	FOT 2424-C1
31	31	C	FOT 2424-C1
32	32	A	FOT 2424-C1
33	33	B	FOT 2424-C1
34	34	C	FOT 2424-C1
35	35	C	FOT 2424-C2