



Sample Items

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Postsecondary

Ophthalmic Technology

Test Code: 277

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

A plus lens moved downward from the primary position results in a:

- A. shortened focal length.
- B. base up prism.
- C. base down prism.
- D. lengthened focal length.

2

According to ANSI Z87.1, the thinnest point of an industrial safety lens should not be less than:

- A. 1.8 mm.
- B. 1.5 mm.
- C. 3.0 mm.
- D. 2.0 mm.

3

Units of lens power are called:

- A. diopters.
- B. prisms.
- C. kilowatts.
- D. meters.

4

Which of the following is the most impact resistant material?

- A. CR-39
- B. Case-hardened glass
- C. Polycarbonate
- D. Chem-hardened glass

5

In optics, OD refers to:

- A. right.
- B. left.
- C. both.
- D. power.

6

What is used to measure the curves of a lens?

- A. Tonometer
 - B. Lens clock
 - C. Lensometer
 - D. Retinoscope
-

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7

Images focused on the retina are transmitted to the brain by the:

- A. cornea.
- B. crystalline lens.
- C. optic nerve.
- D. ciliary muscle.

8

The cornea has how many distinct layers?

- A. Three
- B. Four
- C. Five
- D. Six

9

A lens that reads $+3.00 -2.00 \times 090$ is decentered in 6 mm too much. How much prismatic effect will the wearer experience?

- A. 1.80 diopters
- B. 1.20 diopters
- C. 3.00 diopters
- D. 0.60 diopters

10

The sum of the lens' front and back surface powers is called:

- A. cross curve.
- B. front base curve.
- C. nominal power.
- D. refractive power.

11

Commonly called "pink eye," which of the following is an inflammation characterized by discharge, grittiness, swelling, and redness?

- A. Glaucoma
- B. Cataract
- C. Presbyopia
- D. Conjunctivitis

12

The person who can prescribe medications limited to the eye, such as prescription eye drops and gels, and who refracts the eye and prescribes needed vision correction, although not an MD, is called an:

- A. ophthalmologist.
- B. optician.
- C. optometrist.
- D. orthoptist.

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13 Under which letter of the alphabet should “The National Medical Supply Company” be filed?

- A. T
- B. N
- C. M
- D. S

14 Which of the following names comes first when filing alphabetically?

- A. Olman
- B. O’Leary
- C. Oliver
- D. Olson

15 Which of the following is the correct way to index the name Sarah Elizabeth Jones?

- A. Elizabeth, Sarah Jones
- B. Sarah, Elizabeth, Jones
- C. Jones, Sarah Elizabeth
- D. Jones, Elizabeth, Sarah

16 What is the power of a lens that has a focal length of 222.22 mm?

- A. 4.50
- B. 2.50
- C. 5.50
- D. 2.25

17 The instrument used to rotate a mounted lens that is slightly off axis is a/an:

- A. nylon bracing plier.
- B. narrow numont plier.
- C. axis plier.
- D. distometer.

18 What is the refractive index of CR-39?

- A. 1.523
 - B. 1.49
 - C. 1.59
 - D. 1.66
-

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- 19 Which of the following glass lenses does not have to be tested for impact resistance?
- A. Executive
 - B. Flat-top 28 in photochromic glass
 - C. Flat-top 28 in clear glass
 - D. It is required that all glass lenses be tested.
- 20 Which of the following lens power has the shortest focal length?
- A. +0.50
 - B. -0.50
 - C. -0.75
 - D. -0.25
- 21 Determine the Rx from the following readings taken from an A.O. lensometer.
First reading: single line in focus with power wheel on -2.00 and axis reading on 20
Second reading: three lines in focus with power wheel on +0.75
- A. -3.25 +1.25 x 110
 - B. -2.00 +0.75 x 20
 - C. -2.00 -1.25 x 20
 - D. -2.00 +2.75 x 20
- 22 A lens surface +6.00 and +6.50 in each of the two primary meridians is:
- A. spherical.
 - B. toric.
 - C. plano.
 - D. aspheric.
- 23 The thick part of a prism is called the:
- A. apex.
 - B. base.
 - C. point.
 - D. top.
- 24 When an optician refers to the geometric center of a lens, he or she is referring to:
- A. the point on the lens where light passes through undeviated.
 - B. where the bifocal line meets the distant part of the lens.
 - C. the actual center of the lens.
 - D. the center of the reading segment.

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25 The instrument used to measure vertex distance is a:

- A. pupilometer.
- B. distometer.
- C. lensometer.
- D. tonometer.

26 The distance from the lowest point in the bottom eye wire groove to the top of the multi-focal segment is referred to as the:

- A. B measurement.
- B. ED measurement.
- C. segment height.
- D. datum line.

27 When grinding a slab-off lens, you always grind prism with the:

- A. base up.
- B. base down.
- C. base in.
- D. base out.

28 Bicentric grinding is synonymous with:

- A. slab-off.
- B. One-piece bifocals.
- C. fused bifocals.
- D. hard resin lenses.

29 What should you, as an optician, do when a patient comes in and complains of severe eye pain?

- A. Take a complete history
- B. Examine the external eye with an ophthalmoscope
- C. Check the papillary response with a light
- D. Refer the patient to his or her eye doctor

30 The alloy that should be used when blocking a CR-39 lens has a melting point of:

- A. 157°.
 - B. 217°.
 - C. 97°.
 - D. 117°.
-

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31

The correct way to measure the segment height for an FT-28 on an adult is from the bottom of the eye wire to the:

- A. base of the pupil.
- B. top of the bottom eyelid.
- C. center of the pupil.
- D. top of the pupil.

32

The correct way to measure the segment height of an FT-29 on a 6-year-old child is from the bottom of the eyewire to the:

- A. base of the pupil.
- B. top of the bottom eyelid.
- C. center of the pupil.
- D. top of the pupil.

33

Multifocal height is usually determined by measuring from the:

- A. lower edge of the lens.
- B. upper edge of the lens.
- C. lower edge of the frame.
- D. upper edge of the frame.

34

You should use a pen light (or muscle light) to evaluate a patient's vision when he or she has failed:

- A. the glare test.
- B. to see hand motion.
- C. to count fingers.
- D. to read the Snellen chart.

35

Which of the following is an inadequate occluder?

- A. A near vision card
- B. A 3x5 index card
- C. The patient's hand
- D. An eye patch

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?	⊙	Answer/ Scale	Objective
1	1	C	OPT 1123-C1
2	2	C	OPT 1123-C1
3	3	A	OPT 1123-C1
4	4	C	OPT 1123-C1
5	5	A	OPT 1123-C1
6	6	B	OPT 1123-C1
7	7	C	OPT 1123-C1
8	8	C	OPT 1123-C1
9	9	D	OPT 1123-C2
10	10	C	OPT 1123-C2
11	11	D	OPT 1123-C2
12	12	C	OPT 1323-C1
13	13	B	OPT 1323-C1
14	14	B	OPT 1323-C1
15	15	C	OPT 1323-C1
16	16	A	OPT 1323-C2
17	17	D	OPT 2423-C1
18	18	B	OPT 2423-C1

?	⊙	Answer/ Scale	Objective
19	19	A	OPT 2423-C1
20	20	C	OPT 2423-C1
21	21	D	OPT 2423-C2
22	22	B	OPT 2433-C1
23	23	B	OPT 2513-C1
24	24	C	OPT 2513-C1
25	25	B	OPT 2513-C1
26	26	C	OPT 2513-C1
27	27	A	OPT 2513-C2
28	28	A	OPT 2513-C2
29	29	D	OPT 2623-C1
30	30	D	OPT 2623-C1
31	31	B	OPT 2623-C1
32	32	C	OPT 2623-C1
33	33	A	OPT 2623-C1
34	34	B	OPT 2623-C2
35	35	C	OPT 2623-C2