

High Resolution Vision : Visual Performance and Contrast Sensitivity Essay Questionnaire

Circle the letter (a,b,c or d) beside the correct answer

- 1. Is it possible to have 20/20 vision and not see clearly?**
 - a. No
 - b. Maybe
 - c. Yes
 - d. Only in low-light conditions

- 2. What is the accepted standard for quantifying vision**
 - a. Visual Acuity
 - b. Contrast sensitivity
 - c. Modular Transfer Function
 - d.W.A.V.E. Technology

- 3. The ability to perceive contrast allows an individual to?**
 - a. Distinguish objects from their background
 - b. See texture and visual details
 - c. See colours in all their richness and vividness
 - d. All of the above

- 4. What are the two components of Contrast Sensitivity?**
 - a. Light and dark
 - b. Contrast value and spatial frequency
 - c. Contrast value function and modular transfer function
 - d. Shades and detail

- 5. Which factors decrease contrast perception?**
 - a. Low light conditions and aging
 - b. Aberrations in the lenses
 - c. Reflection, scratches, dust and smudges
 - d. All of the above

- 6. There are aberrations in ?**
 - a. All ophthalmic devices
 - b. Diagnostic equipment
 - c. the MTF
 - d. None of the above

- 7. What is Modular Transfer Function?**
 - a. the ability to absorb the light that is reflected on horizontal surfaces
 - b. the contrast of the object being viewed divided by the contrast of the image produced by the system
 - c. the difference between the darkest and lightest part of an image
 - d. A test to assess contrast sensitivity function

- 8. Which proprietary technology can control higher order aberrations?**
 - a. Digital surfacing
 - b. W.A.V.E. Technology
 - c. Reflection free coatings
 - d. All of the above

- 9. What are the exclusive characteristics of W.A.V.E. Technology?**
 - a. Analysis of the entire beam of light passing through the pupil, calculation of complex surfaces and digital surfacing precise to $1/10^{\text{th}}$ of a micron
 - b. Optimization of the contact angle
 - c. Capability to control higher order aberration
 - d. A and c

- 10. Which technologies can also preserve contrast sensitivity?**
 - a. Reflection free coatings only
 - b. Reflection free coatings and blue light filters
 - c. Reflection free coatings, blue light filters and polarizing filters
 - d. Tinted lenses

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