Certified Professionals may earn .2 CEUs by completing quizzes based on selected articles in each issue of the Assistive Technology journal.

Each quiz is 12 questions in multiple-choice or true-false format. You must answer nine questions correctly (75%) to earn the .2 CEU credit. Results of the quiz will be emailed (or mailed by request) upon completion. Complete the quiz by circling the correct answers. Mail or fax the completed quiz with payment to RESNA Quizzes, 1700 N. Moore St, Suite 1540, Arlington, VA 22209. FAX: (703) 524-6630.

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*Other quizzes from Assistive Technology Journal articles may be found on the RESNA website (www.RESNA.org). The primary program learning objective is to keep abreast of current findings and practices in assistive technology, research and rehabilitation engineering.*

Was the content of the article relevant to current AT practice? ☐ Yes  ☐ No
Was reading the article and completing the quiz a good way for you to learn? ☐ Yes  ☐ No
1. Technologies that translate the intentions of the user with profound physical impairments into functional interactions such as communication or environmental control are often referred to as ______________ technologies.
   A. intuitive
   B. novel
   C. access

2. These mechanical switches are controlled with ______________ _____________ movement.
   A. explicit physical
   B. subtle physical
   C. implicit internal
   D. explicit emotional

3. T/F The deployment of mechanical switches can be a challenging endeavor as the user may require elaborate positioning aids or mounting systems to secure the switch at the identified access site.

4. T/F Because of several significant limitations, in addition to being more expensive than some other viable alternatives, mechanical switches have become a less popular access technology alternative for those with at least one reliable voluntary movement.

5. Infrared (IR) reflection can be detected with:
   A. a single transceiver
   B. no transceiver
   C. multiple transceivers

6. T/F IR technology can be used to produce relatively low-cost interfaces. However, some challenges associated with IR sensing present themselves, such as its short range of transmission and blockage by common materials.

7. The following were cited as factors limiting the usability of eye-tracking devices:
   A. user fatigue
   B. calibration drift
   C. insufficient range of motion of the eye
   D. all of the above
   E. A and B only
8. T/F A computer vision-based access system tracks the location of a user-identified facial landmark (e.g., nose or pupil) via a camera and translates position changes into cursor movements on a computer screen.

9. The __________________ was developed and is capable of tracking numerous facial features (nose, lips, etc.) as well as other body parts.
   A. the Motion Moose
   B. the Camera Mouse
   C. the Photo Tracker

10. T/F EEG has been popular in BCI research because of its noninvasiveness and high temporal resolution; however, its spatial resolution and signal bandwidth are very limited.

11. ___________________________ refers to changes in skin conductivity mediated by the autonomic nervous system.
   A. Electrothermal activity (ETA)
   B. Hypodermal activity (HDA)
   C. Electrodermal activity (EDA)
   D. Electromagnetic activity (EMA)

12. T/F The success of an access solution not only requires suitable technology, but also hinges on appropriate user training, for example, by contingent stimulation.