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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.

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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

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## 28.3B Quiz Wearable Ultrasonic Guiding Device with White Cane for the Visually Impaired: A Preliminary Verisimilitude Experiment

1. Assistive technologies can help visually impaired individuals to avoid obstructions within approximately how many centimeters of the road surface?

- a. 50 cm
- b. 30 cm
- c. 20 cm
- d. 40 cm

ANSWER: \_\_\_\_\_

2. What was the name of the first handheld sonar-based mobility aid?

- a. Personal Radar
- b. GuideCane
- c. Sonic Torch
- d. Sonic PathFinder
- e. UltraCane

ANSWER: \_\_\_\_\_

3. Which of the following is perhaps considered the most effective of all the obstacle-detection devices?

- a. Computer vision
- b. Cyber computation
- c. Communication module
- d. Maneuver magic

ANSWER: \_\_\_\_\_

4. To what range was the ultrasonic sensor initially set?

- a. 75 centimeters
- b. 120 centimeters
- c. 65 centimeters
- d. 90 centimeters
- e. 105 centimeters

ANSWER: \_\_\_\_\_

5. Which prominent composer's two songs were played to direct the user to the right or left when obstacles were encountered?

- a. Mozart
- b. Bach
- c. Beethoven
- d. Berlioz
- e. Mendelsohn

ANSWER: \_\_\_\_\_

6. Why were two pearl plates hung on the course?

- a. to indicate danger
- b. for decoration
- c. to indicate a curve
- d. to indicate an approaching slippery surface

ANSWER: \_\_\_\_\_

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7. What color pearl plate was used to represent a wall?

- a. Green
- b. Blue
- c. Pink
- d. Orange
- e. Yellow

ANSWER: \_\_\_\_\_

8. What was the approximate battery life of the proposed device?

- a. 8 hours
- b. 12 hours
- c. 16 hours
- d. 24 hours
- e. 4 hours

ANSWER: \_\_\_\_\_

9. How many male and female participants were recruited for the experiment?

- a. Five male and two female
- b. Two male and five female
- c. Three male and four female
- d. Four male and three female
- e. Five male and one female

ANSWER: \_\_\_\_\_

10. How would one characterize the 45° and 90° turns for the participants to navigate?

- a. Very difficult
- b. Relatively easy
- c. Of medium difficulty
- d. Very easy
- e. Relatively difficult

ANSWER: \_\_\_\_\_

11. How many questions did the questionnaire consist of, and of which type were the vast majority?

- a. 100 questions...multiple choice
- b. 150 questions...true/false
- c. 126 questions...Likert-type scale
- d. 140 questions...Guttman-type scale
- e. 164 questions...dichotomous

ANSWER: \_\_\_\_\_

12. What were the principal factors considered in the purchase of the proposed guiding system?

- a. Efficacy and price
- b. Comfort and durability
- c. Price and durability
- d. Price and comfort
- e. Comfort and efficacy

ANSWER: \_\_\_\_\_